Blin	Nomenclature	SSN	Filename	Page Number
	P1 EXHIBIT			P1-1
28	COMBAT IDENTIFICATION PROGRAM	BA0510	51700103.00P	1
29	JCSE EQUIPMENT (USREDCOM)	BB5777	52930123.00P	7
30	DEFENSE SATELLITE COMMUNICATIONS SYSTEM (SPACE)	BB8500	52948148.00P	8
31	SHF TERM	BA9350	59810123.00P	39
32	SAT TERM, EMUT (SPACE)	K77200	59856123.00P	45
33	NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE)	K47800	59894123.00P	50
34	GROUND COMMAND POST	BC4001	59909123.00P	55
35	SMART-T (SPACE)	BC4002	59910123.00P	56
36	SCAMP (SPACE)	BC4003	59911123.00P	62
37	GLOBAL BRDCST SVC - GBS	BC4120	59915123.00P	67
38	MOD OF IN-SVC EQUIP (TAC SAT)	BB8417	59920123.00P	73
39	ARMY GLOBAL CMD & CONTROL SYS (AGCCS)	BA8250	58148123.00P	74
40	ARMY DATA DISTRIBUTION SYSTEM (ADDS)	BU1400	56316123.00P	77
41	SINCGARS FAMILY	BW0006	57638123.00P	85
42	JOINT TACTICAL AREA COMMAND SYSTEMS	BA1010	58266123.00P	93
43	ACUS MOD PROGRAM (WIN T/T)	BB1600	58324123.00P	96
44	COMMS-ELEC EQUIP FIELDING	BA5210	58548112.00P	101
45	SOLDIER ENHANCEMENT PROGRAM COMM/ELECTRONICS	BA5300	58560131.00P	103
46	COMBAT SURVIVOR EVADER LOCATOR (CSEL)	B03200	58960123.00P	104
47	MEDICAL COMM FOR CBT CASUALTY CARE (MC4)	MA8046	59890118.00P	110
48	CI AUTOMATION ARCHITECTURE	BK5284	50250142.00P	113
49	TSEC - ARMY KEY MGT SYS (AKMS)	BA1201	50120123.00P	114
50	INFORMATION SYSTEM SECURITY PROGRAM - ISSP	TA0600	50122136.00P	117
51	TERRESTRIAL TRANSMISSION	BU1900	59400148.00P	127
52	BASE SUPPORT COMMUNICATIONS	BU4160	59716150.00P	134
53	ARMY DISN ROUTER	BU0300	59782148.00P	137
54	ELECTROMAG COMP PROG (EMCP)	BD3100	59786135.00P	140

Blin	Nomenclature	SSN	Filename	Page Number
	MANUTECH CONTINUE DECC (MANUTCIE) (BLISCAO)	DUIGGAO	E00E0440.00D	1.12
55 56	WW TECH CON IMP PROG (WWTCIP) (BU3610)	BU3610	59850148.00P	142
56 57	INFORMATION SYSTEMS	BB8650	59200148.00P	145
57	DEFENSE MESSAGE SYSTEM (DMS)	BU3770	59632118.00P	161
58	LOCAL AREA NETWORK (LAN)	BU4165	59704148.00P	164
59	PENTAGON INFORMATION MGT AND TELECOM	BQ0100	59846148.00P	168
60	FOREIGN COUNTERINTELLIGENCE PROG (FCI)	BK5282	59398142.00P	174
61	GENERAL DEFENSE INTELL PROG (GDIP)	BD3900	59816142.00P	175
63	ALL SOURCE ANALYSIS SYS (ASAS) (TIARA)	K28801	59340123.00P	176
64	JTT/CIBS-M (TIARA)	V29600	59522103.00P	179
65	IEW - GND BASE COMMON SENSORS (TIARA)	BZ7326	59544103.00P	185
66	TACTICAL UNMANNED AERIAL VEHICLE	BA0330	59558103.00P	190
67	JOINT STARS (ARMY) (TIARA)	BA1080	59574103.00P	195
68	INTEGRATED BROADCAST TERMINAL MODS (TIARA)	BA1081	59590103.00P	201
69	DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA)	KA2550	59607123.00P	205
71	TACTICAL EXPLOITATION OF NATIONAL CAPABILITIE	BZ7315	59678102.00P	209
72	COMMON IMAGERY GROUND/SURFACE SYSTEM (CIGSS) (BZ7316)	BZ7316	59690102.00P	213
73	JOINT TACTICAL GROUND STATION MODS	BZ8420	59695121.00P	216
74	TROJAN (TIARA)	BA0326	59704104.00P	217
75	MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA)	BZ9750	59912103.00P	225
76	CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA)	BK5275	59925123.00P	233
77	ITEMS LESS THAN \$5.0M (TIARA)	BK5278	59990106.00P	234
78	SHORTSTOP	VA8000	58490148.00P	235
79	COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES	BL5283	59996142.00P	240
80	SENTINEL (FAAD GBS)	WK5053	50121103.00P	241
81	SENTINEL MODS	WK5057	50125103.00P	249
82	TARGET LOCATION OBSERVATION SYSTEM (TLOS)	K38400	50130103.00P	257
83	NIGHT VISION DEVICES	KA3500	50140103.00P	259
84	LONG RANGE ADVANCED SCOUT SURVEILLANCE SYSTEM	K38300	50142103.00P	282

Blin	Nomenclature	SSN	Filename	Page Number
05	LTMT VIDEO RECON CYCTEM (LMV/DC)	K20000	E04E4402.00D	207
85 86	LTWT VIDEO RECON SYSTEM (LWVRS)	K30800	50151103.00P	287
86 87	NIGHT VISION, THERMAL WPN SIGHT	K22900	50152103.00P	293
	COMBAT IDENTIFICATION/AIMING LIGHT (CIDDS) ARTILLERY ACCURACY EQUIP	BA0515 AD3200	50156103.00P	299
88 89	PORTABLE INDUCTIVE ARTILLERY FUZE SETTER (PIAFS)		50178100.00P	305
90	` ,	AD3260	50187114.00P	319
90 91	MOD OF IN-SVC EQUIP (TAC SURV) DIGITIZATION APPLIQUE	BZ7325 W61900	50224148.00P 50240123.00P	323 331
92 93	LIGHTWEIGHT LASER DESIGNATOR / RANGEFINDER (LLDR) COMPUTER BALLISTICS: MORTAR M-30	K31100	50250103.00P	336
93 94	MORTAR FIRE CONTROL SYSTEM	K99200 K99300	55726119.00P	341
			57500119.00P	342
95 06	INTEGRATED MET SYS SENSORS (IMETS) - TIARA TACTICAL OPERATIONS CENTERS	BW0021 BZ9865	58690123.00P	347
96 97			59040123.00P	350
97 98	ADV FIELD ARTILLERY TACT DATA SYS (AFATDS) FIRE SUPPORT ADA CONVERSION	B28600	59050123.00P	353
		B78400	59100123.00P	356
99	CMBT SVC SUPT CONTROL SYS (CSSCS)	W34600	59142123.00P	357
100	FAAD C2	AD5050	59262123.00P	360
101	FAADC2I MODIFICATIONS	AD5090	59264123.00P	363
102	AIR & MSL DEFENSE PLANNING & CTRL SYS (AMC PCS)	AD5070	59266123.00P	367
103	FORWARD ENTRY DEVICE (FED)	BZ9851	59322123.00P	370
104	STRIKER-COMMAND AND CONTROL SYSTEM	B78500	59330141.00P	373
105	LIFE CYCLE SOFTWARE SUPPORT (LCSS)	BD3955	59442126.00P	378
106	LOGTECH	BZ8889	59502118.00P	381
107	TC AIMS II	BZ8900	59510118.00P	384
108	GUN LAYING AND POS SYS (GLPS)	A30000	59572100.00P	387
109	ISYSCON EQUIPMENT	BX0007	59672123.00P	393
110	MANEUVER CONTROL SYSTEM (MCS)	BA9320	59742123.00P	399
111	STAMIS TACTICAL COMPUTERS (STACOMP)	W00800	59922118.00P	402
112	STANDARD INTEGRATED CMD POST SYSTEM	BZ9962	59962123.00P	406

Blin	Nomenclature	SSN	Filename	Page Number
		DE 4400	=0004440 00 D	110
113	ARMY TRAINING XX1 MODERNIZATION	BE4169	53001118.00P	413
114	AUTOMATED DATA PROCESSING EQUIP	BD3000	53002150.00P	418
115	RESERVE COMPONENT AUTOMATION SYS (RCAS)	BE4167	59956108.00P	470
116	AFRTS	BZ8480	59762150.00P	473
117	ITEMS LESS THAN \$5.0M (A/V)	BK5289	59988150.00P	476
118	PRODUCTION BASE SUPPORT (C-E)	BF5400	52716144.00P	479

			(DOLS)	(THOUSANDS OF DOLLARS)								
LINE	ITEM		FY 00		FY 98		FY 99		FY 00		FY 01	
NO.	NOMENCLATURE	ID	UNIT COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
(.)	(-)	(0)	(' /	(0)	(0)	(,)	(0)	(0)	(10)	(11)	(12)	
	COMM - JOINT COMMUNICATIONS											
28	COMBAT IDENTIFICATION PROGRAM (BA0510)						4,876		7,568		10,954	
29	JCSE EQUIPMENT (USREDCOM) (BB5777)				3,701		3,139		5,119		4,593	
	SUB-ACTIVITY TOTAL				3,701		8,015		12,687		 15,547	
	COMM - SATELLITE COMMUNICATIONS											
30	DEFENSE SATELLITE COMMUNICATIONS SYSTEM (SPACE) (BB8500)				82,428		94,201		68,489		70,799	
31	SHF TERM (BA9350)		1,996,875		15,281		25,259	16	31,950	38	62,183	
32	SAT TERM, EMUT (SPACE) (K77200)				7,038		2,447		1,547			
33	NAVSTAR GLOBAL POSITIONING SYSTEM (SPACE) (K47800)	В			5,261		6,527		6,557		31,502	
34	GROUND COMMAND POST (BC4001)				563							
35	SMART-T (SPACE) (BC4002)				20,728		57,370		61,761		46,834	
36	SCAMP (SPACE) (BC4003)				13,712		4,696		5,033		4,292	
37	GLOBAL BRDCST SVC - GBS (BC4120)		273,000		7,284		5,856	40	10,920	14	9,352	
38	MOD OF IN-SVC EQUIP (TAC SAT) (BB8417)				2,398		1,470		500			
	SUB-ACTIVITY TOTAL				 154,693		 197,826		 186,757		224,962	

			(DOLS)				(THOUSANDS	OF DOLL	ARS)		
LINE NO.	ITEM NOMENCLATURE	ID	FY 00 UNIT		FY 98		FY 99		FY 00		FY 01
NO.	NOWENCLATURE	ID	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	COMM - C3 SYSTEM										
39	ARMY GLOBAL CMD & CONTROL SYS (AGCCS) (BA8250)	Α			15,079		20,505		12,963		8,526
	SUB-ACTIVITY TOTAL				 15,079		 20,505		12,963		 8,526
	COMM - COMBAT COMMUNICATIONS										
40	ARMY DATA DISTRIBUTION SYSTEM (DATA RADIO) (BU1400)	В			64,910		46,919		38,763		38,310
41	SINCGARS FAMILY (BW0006)	Α		32,847	276,460	5,000	57,054		13,205		3,034
42	JOINT TACTICAL AREA COMMAND SYSTEMS (BA1010)	Α			10,292		9,898		980		979
43	ACUS MOD PROGRAM (WIN-T/T) (BB1600)	А			98,059		128,989		109,056		132,664
44	COMMS-ELEC EQUIP FIELDING (BA5210)				3,665		2,160		4,151		4,872
45	SOLDIER ENHANCEMENT PROGRAM COMM/ELECTRONICS (BA5300)				966		4,580		3,326		4,405
46	COMBAT SURVIVOR EVADER LOCATOR (CSEL) (B03200)	В			1,059		13,675				
47	MEDICAL COMM FOR CBT CASUALTY CARE (MC4) (MA8046)						9,414		20,600		15,005
	SUB-ACTIVITY TOTAL				 455,411		272,689		190,081		 199,269

			(DOLS)	(THOUSANDS OF DOLLARS)								
LINE	ITEM		FY 00		FY 98		FY 99		FY 00		FY 01	
NO.	NOMENCLATURE	ID	UNIT	OTV	0007	OT)/	0007	OTV	0007	OTV	0007	
(4)	(2)	(2)	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	
	COMM - INTELLIGENCE COMM											
48	CI AUTOMATION ARCHITECTURE (BK5284)	А			2,213		2,313		1,585		1,757	
	SUB-ACTIVITY TOTAL				 2,213		2,313		1,585		1,757	
	COMM - INFORMATION SECURITY											
49	TSEC - ARMY KEY MGT SYS (AKMS) (BA1201)				4,542		10,315		11,038		12,131	
50	INFORMATION SYSTEM SECURITY PROGRAM - ISSP (TA0600)	А			21,440		33,621		28,750		29,766	
	SUB-ACTIVITY TOTAL				25,982		43,936		39,788		41,897	
	COMM - LONG HAUL COMMUNICATIONS											
51	TERRESTRIAL TRANSMISSION (BU1900)				19,810		1,947		2,029		2,040	
52	BASE SUPPORT COMMUNICATIONS (BU4160)				2,738		1,121		1,836		1,856	
53	ARMY DISN ROUTER (BU0300)				2,881		3,604		3,700		4,370	
54	ELECTROMAG COMP PROG (EMCP) (BD3100)				317		451		440		434	
55	WW TECH CON IMP PROG (WWTCIP) (BU3610)				909		2,025		2,891		2,886	
	SUB-ACTIVITY TOTAL				26,655		9,148		10,896		 11,586	

			(DOLS)				(THOUSANDS	OF DOLL	ARS)		
LINE NO.	ITEM NOMENCLATURE	ID	FY 00 UNIT		FY 98		FY 99		FY 00		FY 01
NO.	NOMENCEATORE	טו	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	COMM - BASE COMMUNICATIONS										
56	INFORMATION SYSTEMS (BB8650)				60,245		84,280		56,915		58,196
57	DEFENSE MESSAGE SYSTEM (DMS) (BU3770)				8,769		16,677		18,454		11,831
58	LOCAL AREA NETWORK (LAN) (BU4165)				10,355		9,951		100,018		90,000
59	PENTAGON INFORMATION MGT AND TELECOM (BQ0100)				24,710		39,088		17,256		68,002
	SUB-ACTIVITY TOTAL				 104,079		 149,996		192,643		228,029
	ELECT EQUIP - NAT FOR INT PROG (NFIP)										
60	FOREIGN COUNTERINTELLIGENCE PROG (FCI) (BK5282)				3,754		874		1,846		869
61	GENERAL DEFENSE INTELL PROG (GDIP) (BD3900)				20,446		21,504		18,345		21,675
62	ITEMS LESS THAN \$5.0M (INTEL SPT) - TIARA (BL5278)				2,696						
	SUB-ACTIVITY TOTAL				 26,896		 22,378		20,191		 22,544
	ELECT EQUIP - TACT INT REL ACT (TIARA)										
63	ALL SOURCE ANALYSIS SYS (ASAS) (TIARA) (KA4400)	В			22,597		30,782		56,514		70,628

ITEM NOMENCLATURE	ID	FY 00						(THOUSANDS OF DOLLARS)								
NOMENGEATORE	ן טו	UNIT		FY 98		FY 99		FY 00		FY 01						
		COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST						
(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)						
JTT/CIBS-M (TIARA) (V29600)	В	156,529	54	13,808	30	10,312	155	24,262	173	26,946						
IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)						12,039										
TACTICAL UNMANNED AERIAL VEHICLE (TUAV) (BA0330)	Α							45,863		61,062						
JOINT STARS (ARMY) (TIARA) (BA1080)	В	6,848,000	20	89,276	18	86,895	12	82,176	10	57,773						
INTEGRATED BROADCAST TERMINAL MODS (TIARA) (BA1081)				373		6,469										
DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA) (KA2550)	В	680,556	4	7,191	10	21,172	36	24,500	12	20,170						
DRUG INTERDICTION PROGRAM (DIP) (TIARA) (BU4050)				2,636												
TACTICAL EXPLOITATION OF NATIONAL CAPABILITIE (BZ7315)				1,618		6,073		4,370		12,946						
COMMON IMAGERY GROUND/SURFACE (CIGSS) (BZ7316)						2,501		2,791		2,853						
JOINT TACTICAL GROUND STATION MODS (BZ8420)				99		2,630										
TROJAN (TIARA) (BA0326)	В			3,687		3,980		4,268		4,382						
MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750)				1,615		4,877		9,090		2,771						
CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA) (BK5275)						3,690		3,137		378						
ITEMS LESS THAN \$5.0M (TIARA) (BK5278)				506		1,526		530		546 						
SUB-ACTIVITY TOTAL				143,406		192,946		257,501		260,455						
	IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326) TACTICAL UNMANNED AERIAL VEHICLE (TUAV) (BA0330) JOINT STARS (ARMY) (TIARA) (BA1080) INTEGRATED BROADCAST TERMINAL MODS (TIARA) (BA1081) DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA) (KA2550) DRUG INTERDICTION PROGRAM (DIP) (TIARA) (BU4050) TACTICAL EXPLOITATION OF NATIONAL CAPABILITIE (BZ7315) COMMON IMAGERY GROUND/SURFACE (CIGSS) (BZ7316) JOINT TACTICAL GROUND STATION MODS (BZ8420) TROJAN (TIARA) (BA0326) MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750) CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA) (BK5275) ITEMS LESS THAN \$5.0M (TIARA) (BK5278)	IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326) TACTICAL UNMANNED AERIAL VEHICLE (TUAV) (BA0330) A JOINT STARS (ARMY) (TIARA) (BA1080) INTEGRATED BROADCAST TERMINAL MODS (TIARA) (BA1081) DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA) (KA2550) DRUG INTERDICTION PROGRAM (DIP) (TIARA) (BU4050) TACTICAL EXPLOITATION OF NATIONAL CAPABILITIE (BZ7315) COMMON IMAGERY GROUND/SURFACE (CIGSS) (BZ7316) JOINT TACTICAL GROUND STATION MODS (BZ8420) TROJAN (TIARA) (BA0326) MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750) CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA) (BK5275) ITEMS LESS THAN \$5.0M (TIARA) (BK5278)	IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326) TACTICAL UNMANNED AERIAL VEHICLE (TUAV) (BA0330) A JOINT STARS (ARMY) (TIARA) (BA1080) INTEGRATED BROADCAST TERMINAL MODS (TIARA) (BA1081) DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA) (KA2550) B 680,556 DRUG INTERDICTION PROGRAM (DIP) (TIARA) (BU4050) TACTICAL EXPLOITATION OF NATIONAL CAPABILITIE (BZ7315) COMMON IMAGERY GROUND/SURFACE (CIGSS) (BZ7316) JOINT TACTICAL GROUND STATION MODS (BZ8420) TROJAN (TIARA) (BA0326) MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750) CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA) (BK5275) ITEMS LESS THAN \$5.0M (TIARA) (BK5278)	IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326) TACTICAL UNMANNED AERIAL VEHICLE (TUAV) (BA0330) JOINT STARS (ARMY) (TIARA) (BA1080) B 6,848,000 20 INTEGRATED BROADCAST TERMINAL MODS (TIARA) (BA1081) DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA) (KA2550) B 680,556 4 DRUG INTERDICTION PROGRAM (DIP) (TIARA) (BU4050) TACTICAL EXPLOITATION OF NATIONAL CAPABILITIE (BZ7315) COMMON IMAGERY GROUND/SURFACE (CIGSS) (BZ7316) JOINT TACTICAL GROUND STATION MODS (BZ8420) TROJAN (TIARA) (BA0326) MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750) CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA) (BK5275) ITEMS LESS THAN \$5.0M (TIARA) (BK5278)	IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)	IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326) TACTICAL UNMANNED AERIAL VEHICLE (TUAV) (BA0330) JOINT STARS (ARMY) (TIARA) (BA1080) B 6,848,000 20 89,276 18 INTEGRATED BROADCAST TERMINAL MODS (TIARA) (BA1081) DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA) (KA2550) DRUG INTERDICTION PROGRAM (DIP) (TIARA) (BU4050) TACTICAL EXPLOITATION OF NATIONAL CAPABILITIE (BZ7315) COMMON IMAGERY GROUND/SURFACE (CIGSS) (BZ7316) JOINT TACTICAL GROUND STATION MODS (BZ8420) TROJAN (TIARA) (BA0326) MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750) CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA) (BK5275) ITEMS LESS THAN \$5.0M (TIARA) (BK5278)	IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326) TACTICAL UNMANNED AERIAL VEHICLE (TUAV) (BA0330) JOINT STARS (ARMY) (TIARA) (BA1080) B 6,848,000 20 89,276 18 86,895 INTEGRATED BROADCAST TERMINAL MODS (TIARA) (BA1081) DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA) (KA2550) DRUG INTERDICTION PROGRAM (DIP) (TIARA) (BU4050) TACTICAL EXPLOITATION OF NATIONAL CAPABILITIE (BZ7315) COMMON IMAGERY GROUND/SURFACE (CIGSS) (BZ7316) JOINT TACTICAL GROUND STATION MODS (BZ8420) TROJAN (TIARA) (BA0326) MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750) CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA) (BK5275) ITEMS LESS THAN \$5.0M (TIARA) (BK5278)	12,039 1	IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326) TACTICAL UNMANNED AERIAL VEHICLE (TUAV) (BA0330) A 45,863 JOINT STARS (ARMY) (TIARA) (BA1080) B 6,848,000 20 89,276 18 86,895 12 82,176 INTEGRATED BROADCAST TERMINAL MODS (TIARA) (BA1081) DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIARA) (KA2550) DRUG INTERDICTION PROGRAM (DIP) (TIARA) (BU4050) TACTICAL EXPLOITATION OF NATIONAL CAPABILITIE (BZ7315) COMMON IMAGERY GROUND/SURFACE (CIGSS) (BZ7316) JOINT TACTICAL GROUND STATION MODS (BZ8420) TROJAN (TIARA) (BA0326) B 3,687 3,980 4,288 MOD OF IN-SVC EQUIP (INTEL SPT) (TIARA) (BZ9750) CI HUMINT AUTOMATED TOOL SET (CHATS) (TIARA) (BK5278) TIEMS LESS THAN \$5.0M (TIARA) (BK5278) 506 1,526 530	IEW - GND BASE COMMON SENSORS (TIARA) (BZ7326)						

			(DOLS)				(THOUSANDS	OF DOLL	ARS)		
LINE NO.	ITEM NOMENCLATURE	ID	FY 00 UNIT		FY 98		FY 99		FY 00		FY 01
110.	NOWENGEATORE	15	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	ELECT EQUIP - ELECTRONIC WARFARE (EW)										
78	SHORTSTOP (VA8000)				5,780		9,973				
79	COUNTERINTELLIGENCE/SECURITY COUNTERMEASURES (BL5283)				2,239		1,720		1,691		2,327
	SUB-ACTIVITY TOTAL				 8,019		 11,693		 1,691		2,327
	ELECT EQUIP - TACTICAL SURV. (TAC SURV)										
80	FAAD GBS (WK5053)		3,489,000	27	58,858	24	57,877	11	38,379	3	24,362
81	SENTINEL MODS (WK5057)										7,112
82	TARGET LOCATION OBSERVATION SYSTEM (TLOS) (K38400)	В			5,844		11,755				
83	NIGHT VISION DEVICES (KA3500)	А	2,220	13,305	58,753	12,194	43,516	9,448	20,977	7,545	28,910
84	LONG RANGE ADVANCE SCOUT SURVEILLANCE SYSTEM (K38300)		654,894					66	43,223	89	47,988
85	LTWT VIDEO RECON SYSTEM (LWVRS) (K30800)	А	23,697	101	4,757	320	8,341	145	3,436	44	1,207
86	NIGHT VISION, THERMAL WPN SIGHT (K22900)	В	10,781	3,752	40,774	3,044	36,011	3,330	35,901	1,818	35,603
87	COMBAT IDENTIFICATION / AIMING LIGHT (BA0515)		34,495					275	9,486	5,285	11,098
88	ARTILLERY ACCURACY EQUIP (AD3200)				4,381		10,974		4,283		14,508

			(DOLS)				(THOUSANDS	OF DOLL	ARS)		
LINE NO.	ITEM NOMENCLATURE	ID	FY 00 UNIT		FY 98		FY 99		FY 00		FY 01
NO.	NOMENCIATORE	טו	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
89	PORTABLE INDUCTIVE ARTILLERY FUZE SETTER (PIAFS) (AD3260)		1,185					3,492	4,137		
90	MOD OF IN-SVC EQUIP (TAC SURV) (BZ7325)				1,108		16,257		6,533		8,864
91	DIGITIZATION APPLIQUE (W61900)	В							66,423		62,140
92	LIGHTWEIGHT LASER DESIGNATOR / RANGEFINDER (LLDR) (K31100)	В	447,286					14	6,262	33	7,145
93	COMPUTER BALLISTICS; MORTAR M-30 (K99200)	Α							2,852		1,664
94	MORTAR FIRE CONTROL SYSTEM (K99300)		249,333					15	3,740	37	12,494
95	INTEGRATED MET SYS SENSORS (IMETS) - TIARA (BW0021)				1,329		4,876		5,469		7,069
	SUB-ACTIVITY TOTAL				 175,804		 189,607		251,101		270,164
	ELECT EQUIP - TACTICAL C2 SYSTEMS										
96	TACTICAL OPERATIONS CENTERS (BZ9865)						26,630		28,098		26,984
97	ADV FIELD ARTILLERY TACT DATA SYS (AFATDS) (B28600)	В	95,050	245	34,954	260	36,141	456	43,343	468	48,750
98	FIRE SUPPORT ADA CONVERSION (B78400)	Α			2,935				980		979
99	CMBT SVC SUPT CONTROL SYS (CSSCS) (W34600)		73,785	56	6,648	105	9,306	270	19,922	320	18,090
100	FAAD C2 (AD5050)	Α	5,297,000	1	12,592	2	13,556	2	10,594	2	12,537
101	FAADC2I MODIFICATIONS (AD5090)								5,880		3,916

			(DOLS)				(THOUSANDS	OF DOLL	ARS)		
LINE NO.	ITEM NOMENCLATURE	ID	FY 00 UNIT		FY 98		FY 99		FY 00		FY 01
NO.	NOMENCEATORE	טו	COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)		(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
102	AIR & MSL DEFENSE PLANNING & CONTROL SYS (AD5070)		2,939,000					1	2,939	1	4,894
103	FORWARD ENTRY DEVICE (FED) (BZ9851)	В			2,295		24,971		15,822		15,857
104	STRIKER-COMMAND AND CONTROL SYSTEM (B78500)		410,233			10	6,009	30	12,307	35	14,214
105	LIFE CYCLE SOFTWARE SUPPORT (LCSS) (BD3955)				1,896		1,171		863		1,017
106	LOGTECH (BZ8889)	В			12,868		8,215		4,190		4,139
107	TC AIMS II (BZ8900)				1,826		444		1,739		1,440
108	GUN LAYING AND POS SYS (GLPS) (A30000)		92,160	64	5,780	61	6,313	81	7,465	92	8,471
109	ISYSCON EQUIPMENT (BX0007)				14,740		15,133		14,714		17,149
110	MANEUVER CONTROL SYSTEM (MCS) (BA9320)	Α					12,998		52,049		50,729
111	STAMIS TACTICAL COMPUTERS (STACOMP) (W00800)	А			30,904		48,115		33,711		38,689
112	STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)				32,558		26,697		30,700		34,796
	SUB-ACTIVITY TOTAL				 159,996		 235,699		 285,316		 302,651
	ELECT EQUIP - AUTOMATION										
113	ARMY TRAINING XXI MODERNIZATION (BE4169) (BE4169)				20,361		32,545		15,361		38,357

			(DOLS)				(THOUSANDS	OF DOLL	ARS)		
LINE	ITEM		FY 00		FY 98		FY 99		FY 00		FY 01
NO.	NOMENCLATURE	ID	UNIT COST	QTY	COST	QTY	COST	QTY	COST	QTY	COST
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)
	AUTOMATED DATA PROCESSING EQUIP (BD3000)		` '		139,235	` '	123,370		138,607		191,580
115	RESERVE COMPONENT AUTOMATION SYS (RCAS) (BE4167)				112,784		107,894		83,040		92,154
	SUB-ACTIVITY TOTAL				272,380		263,809		237,008		322,091
	ELECT EQUIP - AUDIO VISUAL SYSTEMS (A/V)										
116	AFRTS (BZ8480)				442		486		490		489
117	ITEMS LESS THAN \$5.0M (A/V) (BK5289)				2,527		4,584		2,689		3,240
	SUB-ACTIVITY TOTAL				 2,969		 5,070		3,179		3,729
	ELECT EQUIP - SUPPORT										
118	PRODUCTION BASE SUPPORT (C-E) (BF5400)				368		402		378		377
	SUB-ACTIVITY TOTAL				 368		402		378		 377
	ACTIVITY TOTAL				1,577,651		1,626,032		1,703,765		1,915,911

								Date:				
		Exhibit P-4	0, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	=				
OTHER P	PROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				COMBAT IDE	NTIFICATION PROG	GRAM (BA0510)		
Program Elements for Code B I	tems:			Code:	Other Related Progr	am Elements:						
			1			1	1	1	1	1		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty				10	35	274	33	32			Cont	Cont
Gross Cost	0.0	0.0		4.9	7.6	11.0	10.6	8.2			Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	4.9	7.6	11.0	10.6	8.2	0.0	0.0		Cont
Initial Spares					0.5	0.9	0.8	0.6				Cont
Total Proc Cost	0.0	0.0	0.0	4.9	8.1	11.9	11.4	8.8	0.0	0.0		Cont
Flyaway U/C				0.477	0.021	0.011	0.009	0.017				
Wpn Sys Proc U/C		•		0.487	0.023	0.013	0.011	0.019				

NARRATIVE: The Battlefield Combat Identification System (BCIS) is an all weather, day/night, millimeter wave, Low Probability of Intercept/Low Probability of Detection (LPI/LPD), digitally encrypted question and answer system that provides positive identification of friendly platforms out to 5.5 km (clear weather). BCIS was developed to minimize fratricide while maximizing combat effectiveness given rapidly changing and intense tactical situations. BCIS provides positive identification of friendly platforms to aid the gunner or commander to make a rapid shoot/don't shoot decision at the point of engagement. BCIS also provides short range (out to 1 km, in clear weather), LPI/LPD situational awareness messages at the platoon level. Any situational awareness data received by BCIS will be sent through the platform Applique for integration with other position sources to form the full situational awareness database. BCIS has been designated as a Army Horizontal Technology Integration (HTI) program and coordinates A-kit integration with host platforms.

<u>JUSTIFICATION</u>: The BCIS is an integral part of the Army's initiative to digitize the battlefield. Performance results from the Army TF XXI Advanced Warfighting Experiment (AWE) indicate that situational awareness (SA) in its current form is insufficient to prevent fratricide by itself, therefore, a target identification (TI) capability (BCIS) is required. FY00/01 quantities include interrogator/transponder and transponder only variants based on user defined requirements along with the requisite integration kits. FY00/01 quantities initiate fielding to priority units of the Army's 4th ID at Ft. Hood TX and support First Unit Equipped (FUE) in FY01.

Exhibit P-5, Weapon		Appropriation/ Bu	dget Activity				m Nomenclature: T IDENTIFICATIO			Weapon System	Type:	Date:	ruary 1999
OPA Cost Analysis				onics Equipment		COMBA	(BA0510)	IN PROGRAM				reb	luary 1999
OPA	ID		FY 98			FY 99	,		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Initial Production Facilities		\$000	Each	\$000	\$000 1537	Each	\$000	\$000 2085	Each	\$000	\$000 530	Each	\$000
2. BCIS					2854	10	285		35	83			3
B. Project Management Admin					391			617			895		
System Test and Evaluation								1700			354		
5. Support													
Technical Data					14			21			90		
Support Equipment								109					
ECOs											385		
5. Fielding					80			145			503		
Total System Cost					4876			7568			10954		

								Date:		
	Exhibit P-5a, Budget Procurement	nt History a	nd Planning						February 1	1999
Appropriation / Budget Activity/Serial No:	-	Weapon Syste	em Type:		P-1 Line Item	Nomenclature	e:	•		
OTHER PROCUREMENT / 2 / Communica	tions and Electronics					COMBAT ID	ENTIFICATION PR	OGRAM (BA0510)	
WBS Cost Elements:	Contractor and Location	Contract	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs	Date	RFP Issue
Fiscal Years		Method and Type			Delivery	Each	\$000	Avail Now?	Revsn Avail	Date
BCIS	TRW, Redondo Beach, CA		CECOM, Ft. Monmouth, NJ	May-99	May-00	10			NA	Sep-98
BCIS	TRW, Redondo Beach, CA		CECOM, Ft. Monmouth, NJ	Oct-99	Sep-00	35				May-99
BCIS	TRW, Redondo Beach, CA		CECOM, Ft. Monmouth, NJ	Oct-00	Sep-01	274				liviay 00
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BCIS/M1A1	TRW, Redondo Beach, CA		CECOM, Ft. Monmouth, NJ	Oct-99	Sep-00	45	83			May-99
BCIS/M2A2	TRW, Redondo Beach, CA	S/FPM2-4	CECOM, Ft. Monmouth, NJ	Oct-00	Sep-01	119	30			

REMA

M1A2 and M2A2 quantities are funded in accordance with an HTI policy under SSN GA0700, M1 Abrams Tank Mod and SSN G80717 Bradley Base Sustainment.

Host platform integration kits (A-kits) developed in coordination with host PM and prime contractor with RDT&E appropriation two years prior to scheduled fielding (kits developed with FY 99 RDT&E are produced with FY00 OPA2 and fielded in FY01).

							P-1	Item I	Nome	enclat	ure:												Date	e:					—		
FY 00 / 01 BUDGET PRO	DUC	CTION SO	CHED	ULE						CON					PRO	GRAM	I (BA05	510)									Febr	uary 1	999		
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		Exhibit P-4	0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	-				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				JCSE EQU	PMENT (USREDCC	M) (BB5777)		
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
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	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	56.2	2.8	3.7	3.1	5.1	4.6	5.6	5.8	5.5	5.8	0.0	98.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	56.2	2.8	3.7	3.1	5.1	4.6	5.6	5.8	5.5	5.8	0.0	98.2
Initial Spares												
Total Proc Cost	56.2	2.8	3.7	3.1	5.1	4.6	5.6	5.8	5.5	5.8	0.0	98.2
Flyaway U/C												
Wpn Sys Proc U/C												·

DESCRIPTION:

Provides Joint Staff directed Army share of funds to equip the Joint Communications Support Element (JCSE). The JCSE is a unique, completely mobile multi-service communications unit which provides support to the Unified and Specified Commands at the direction of the Joint Staff. The JCSE has the capability to deploy to any location and provide simultaneous communications support to two Joint Task Force (JTF) Headquarters and two Joint Special Operations Task Force (JSOTF) Headquarters involved in worldwide contingency operations or disaster relief/evacuation activities. JCSE also augments or provides contingency emergency communications support to meet the critical operational needs of the Joint Staff, the Services, defense and/or civil agencies, etc. and on a non-interference basis, provides communications support for joint readiness exercises. Equipment to be procured includes wideband microwave radio systems, packet switching nodes, line termination modules for Echelons Above Corps switches, Demand Assigned Multiple Access satellited radios, MILSTAR radios, aynchronous Transfer Mode (ATM) switching nodes and upgrades to existing systems.

JUSTIFICATION:

Equipment requirements are approved by the JCS and assigned to the respective services for procurement through the Executive Acquisition Agent (ARMY).

								Date:				
		Exhibit P-4	0, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:					
OTHER P	PROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t			I	DEFENSE SATELLIT	E COMMUNICATIO	NS SYSTEM (BB85	00)	
Program Elements for Code B II	tems:			Code:	Other Related Progr	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	1996.3	92.7	82.4	94.2	68.5	70.8	56.7	55.7	78.8	74.0		2670.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1996.3	92.7	82.4	94.2	68.5	70.8	56.7	55.7	78.8	74.0		2670.1
Initial Spares												
Total Proc Cost	1996.3	92.7	82.4	94.2	68.5	70.8	56.7	55.7	78.8	74.0		2670.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Defense Satellite Communications System (DSCS) provides super high frequency (SHF) wideband and anti-jam (AJ) satellite communications supporting critical national strategic and tactical C3I requirements. It must be survivable during trans- and post- nuclear attack to support communications essential to national survival. The DSCS supports the Army warfighter as well as the unique and vital Department of Defense (DOD) and non-DOD users, as approved by the Joint Staff and/or Secretary of Defense (SECDEF). The DSCS is used in conjunction with the Terrestrial Transmissions of the Defense Information System Network (DISN) and other communications systems to provide end-to-end communications. The DSCS provides long-haul service between the Continental United States (CONUS) and overseas locations.

JUSTIFICATION: Funds are required to support various requirements of the National Command Authorities (NCA), Commanders in Chief (CINCs), White House Communications Agency (WHCA), Navy C2, NATO, UK, and Diplomatic Telecommunications Service (DTS) as directed by the Office of the Joint Chiefs of Staff (OJCS).

FY00/01 JRSC funds will provide for the continued acquisition and fielding of the Universal Modem System (UMS). FY00/01 Mod of In-Service equipment funds provide for procurring the AN/GSC-52 installation kits and retrofitting other DSCS terminals. FY00/01 DSCS Operations Control System (DOCS) funds complete the procurement of the Replacement BATSON, Replacement DSCS FDMA Control Subsystem (RDFCS), as well as the DSCS Spectrum Management System (DSMS) and DOCS Training System (DTS) programs and continues procurement of Operational Databases. FY00/01 Digital Equipment funds will provide for continued fabrication of racks and components and their integration into DSCS. FY00/01 Interconnect Facility (ICF) funds will continue to accomplish DISA and JCS directed satellite ground terminal relocations supporting realignment of U.S. forces worldwide. In addition, FY01 funds will annualize engineering, matrix, and fielding support for current and prior year DSCS procurements.

Exhibit P-5, Weapon		Appropriation/ Bud	dget Activity				em Nomenclature:			Weapon System	Type:	Date:	ruary 1999
OPA Cost Analysis		Communications				DELENOE	SYSTEM (BB8					rebi	ualy 1999
OPA	ID		FY 98			FY 99	STSTEM (BB6	300)	FY 00			FY 01	
	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
COSt Elements	-		•						-				
DSCS - DIGITAL EQUIPMENT (SPACE) DSCS - INTERCONNECT FACILITY (SPACE) DSCS - JAM RESISTANT SECURE COMM (JRS DSCS - OPERATIONS CONTROL SYS DSCS - MOD OF IN-SVC EQUIP (SPACE)		\$000 12644 3930 18113 15693 32048	Each	\$000	\$000 11237 10539 13967 26848 31610	Each	\$000	\$000 10431 10111 14137 16804 17006	Each	\$000	\$000 10321 10057 8994 15391 26036	Each	\$000
TOTAL		82428			94201			68489			70799		

		Exhibit P-4	0 Budget	ltem .lustifid	cation Sheet			Date:		Fahruani 1000		
A		EXIIIDICI 3	o, Baager	item odstine	Dation Officet					February 1999		
Appropriation / Budget Activity/S						P-1 Item Nomenclat	ure:					
	ROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen					DSCS - DIGITA	AL EQUIPMENT (SF	'ACE) (BB8501)		
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
						•						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	368.1	17.1	12.6	11.2	10.4	10.3	7.4	7.6	16.8	9.8		471.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	368.1	17.1	12.6	11.2	10.4	10.3	7.4	7.6	16.8	9.8		471.3
Initial Spares												
Total Proc Cost	368.1	17.1	12.6	11.2	10.4	10.3	7.4	7.6	16.8	9.8		471.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Defense Satellite Communications System (DSCS) is a subset of the entire Defense Communications System (DCS). The Army DSCS provides research, development, and procurement of the ground segment portion of all strategic satellite communications systems. This equipment accepts voice frequency and digital data from other terrestrial ground systems, i.e., telephone, telephone switching centers, Defense Data Network (DDN), Defense Switched Network (DSN), Secure Voice Communications and microwave; and converts the aggregate user signals into a digital signal which is then transmitted to its recipients utilizing DSCS satellites that are in geostationary earth orbits for worldwide coverage. This long haul strategic military communications system utilizes equipment that makes maximum use of multiplexing, modulation, and coding techniques in order to maximize satellite utilization. This equipment is integrated into the Digital Communications Satellite Subsystem (DCSS) which is a system of electronic racks integrated into a vanized or fixed configuration. Each system is tailored to the individual user earth terminal requirements.

JUSTIFICATION: The DSCS Program must be sustained through the year 2010 to support projected future operational needs of the Warfighter. A sustainment program has been established for the DCSS to increase supportability and efficiency while decreasing space, power, and personnel requirements. FY00/01 funds will provide for fabrication of racks and components and their integration into the DSCS. Primary emphasis is the fabrication of racks in support of Jam Resistant Secure Communications (JRSC), and global Tri-Service Frequency Division Multiple Access (FDMA) earth terminal communications requirements scheduled for installation during this period. These JRSC racks and FDMA racks provide the maximum efficiency in long-range communications by integrating all digital communications network control, and anti-jam secure communications in one system. The DCSS also provides for the fabrication of racks and equipment to field the Strategic/Tactical Gateways, the primary means of interoperable communications providing tactical warfighters

Appropriation / Budger Anthrop/Services No. Other Related Program Elements for Code 8 liters Global connectivity with each other and with strategic commanders, CINC's, and the Pentagon. The Multiplexer Integration and DCSS Automation System will provide backward compatability with the existing tactical infrastructure while also providing technology insertion for expanded capabilities. FY00/01 continues the 8-PSK (phase shift keying) modern procurement, which compresses strategic users on the DCSS and allows for expanded tactical access. FY00 also funds RDFCS software required to provide automatic level power control of FDMA links.	Exhibit P-40C Budget Ite	em Justific	cation Sheet	t	Date February 1999
global connectivity with each other and with strategic commanders, CINC's, and the Pentagon. The Multiplexer Integration and DCSS Automation System will provide backward compatability with the existing tactical infrastructure while also providing technology insertion for expanded capabilities. FY00/01 continues the 8-PSK (phase shift keying) modem procurement, which compresses strategic users on the DCSS and allows for expanded tactical access. FY00 also funds RDFCS software required	Appropriation / Budget Activity/Serial No.			P-1 Item Nomenclature	
global connectivity with each other and with strategic commanders, CINC's, and the Pentagon. The Multiplexer Integration and DCSS Automation System will provide backward compatability with the existing tactical infrastructure while also providing technology insertion for expanded capabilities. FY00/01 continues the 8-PSK (phase shift keying) modem procurement, which compresses strategic users on the DCSS and allows for expanded tactical access. FY00 also funds RDFCS software required	OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				DSCS - DIGITAL EQUIPMENT (SPACE) (BB8501)
backward compatability with the existing tactical infrastructure while also providing technology insertion for expanded capabilities. FY00/01 continues the 8-PSK (phase shift keying) modem procurement, which compresses strategic users on the DCSS and allows for expanded tactical access. FY00 also funds RDFCS software required	Program Elements for Code B Items	Code	Other Related Progr	gram Elements	
	backward compatability with the existing tactical infrastructu shift keying) modem procurement, which compresses strate	ure while al	lso providing	technology insertion for	expanded capabilities. FY00/01 continues the 8-PSK (phase

Exhibit P-5, Weapon		Appropriation/ Bu	dget Activity				m Nomenclature: DIGITAL EQUIPM			Weapon System	Type:	Date:	ruary 1999
OPA Cost Analysis				onics Equipment		DSCS -	(BB8501)	IENT (SPACE)				reb	luary 1999
OPA	ID		FY 98			FY 99	(22000.)		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
DCSS Equipment Racks and Fabrication	Α	4542	6	757	1932	3	644	1836	3	612	2776	4	694
Engineering Support		050			000			000			000		
Contractor Engineering		650			600			600			600		
Government Engineering		1152 600			801 600			799 600			797 600		
Program Management Admin		600			600			600			600		
Documentation		700			500			500			500		
Integrated Baseband Workstation					300	50	6						
Multiplexer Integration & DCSS Automation System (MIDAS)													
Hardware		4000	8	500									
Implementation					500			1000			1000		
Site Preparation		1000			800			800			800		
8-PSK Modem					1204	43	28	2296	82	28	3248	116	28
RSCCE					3584	7	512						
Documentation Fielding					242 174		012						
RDFCS Software								2000					
TOTAL		12644			11237			10424			10321		
TOTAL		12044			11237			10431			10321		

Exhib	it P-5a, Budget Procureme	nt History a	and Planning					Date:	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics	-	Weapon Syst			P-1 Line Item	Nomenclatur	e:			
Equipment						DSCS - DIG	ITAL EQUIPMENT (SPACE) (BB8501)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
DCSS Equipment Racks and Fabrication										
FY98	TYAD	WR	CECOM	Nov-97	Jan-98	6	757	Yes		
FY99	TYAD	WR	CECOM	Nov-98		3		Yes		
FY00	TYAD	WR	CECOM	Nov-99		3	612	Yes		
FY01	TYAD	WR	CECOM	Nov-00		4	694	Yes		
Integrated Baseband Workstation										
FY99	TBS	C/FFP	CECOM	Feb-99	May-99	50	6	Yes		
MIDAS FY98	RAYTHEON	C/FFP Op	t CECOM	Apr-98	Jun-99	8	500	Yes		
8-PSK Modem		0/===						.,		
FY99	TBS		CECOM	Mar-99		43		Yes		
FY00	TBS	C/FFP Op		Mar-00	Jun-00	82		Yes		
FY01	TBS	C/FFP Op	t CECOM	Mar-01	Jun-01	116	28	Yes		
RSCCE										
FY99	STANFORD TELECOM	C/FFP	CECOM	Jan-99	Sep-01	7	512	Yes		
1										

REMARKS: WR = WORK REQUEST

PSK = PHASE SHIFT KEYING

TYAD = TOBYHANNA ARMY DEPOT

RSCCE = REPLACEMENT SATELLITE CONFIGURATION CONTROL ELEMENT

MIDAS = MULTIPLEXER INTEGRATION & DCSS AUTOMATION SYSTEM

RDFCS = REPLACEMENT FREQUENCY DIVISION

MULTIPLE ACCESS CONTROL SYSTEM

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		Exhibit P-4	0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	-				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				DSCS - INTERCO	ONNECT FACILITY (SPACE) (BB8504)		
Program Elements for Code B It	tems:			Code:	Other Related Progr	ram Elements:						
	ı		T				T	i	ı	1		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	113.5	3.2	3.9	10.5	10.1	10.1	10.7	10.9	12.9	11.0		196.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	113.5	3.2	3.9	10.5	10.1	10.1	10.7	10.9	12.9	11.0		196.8
Initial Spares												
Total Proc Cost	113.5	3.2	3.9	10.5	10.1	10.1	10.7	10.9	12.9	11.0		196.8
Flyaway U/C												
Wpn Sys Proc U/C												·

DESCRIPTION: This program executes the Army's executive agency responsibility to install and relocate strategic Defense Satellite Communications System (DSCS) satellite communications earth terminals procured by Product Manager, DSCS Terminals and digital communications equipment procured and packaged by Assistant Project Manager, Digital Communications Satellite Subsystem. For the Army, this program also designs, procures and installs the interconnection facility to interface this equipment with existing Technical Control and Special User Facilities.

JUSTIFICATION: FY00 & 01 funds buy equipment in support of Defense Information Systems Agency (DISA) and Joint Chiefs of Staff (JCS) directed satellite ground terminal relocations supporting the realignment of US Forces worldwide. Reduced overseas manning and the refocus of US interests to areas such as Southwest Asia requires a major shift of key strategic satellite ground resources to support new areas of interest and troop dispositions. Additionally, sustaining the Defense Satellite Communications System (DSCS) systems requires marginal systems to be replaced by newer equipment made available by US troop withdrawals from Europe and other areas.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	ROCUREM	ENT/2/			m Nomenclature:	CILITY (SPACE)		Weapon System	Туре:	Date: Febi	uary 1999
OPA	ID	Communications	FY 98	onics Equipment		FY 99	(BB8504)		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
DCL/GGCL	А	173	VAR	VAR	200	VAR	VAR	200	VAR	VAR	200	VAR	VAF
TERMINAL INSTALLATIONS	А	2166	VAR	VAR	686	VAR	VAR	108	VAR	VAR	2166	VAR	VAR
ENGINEERING/TEST	Α	200	VAR	VAR	1670	VAR	VAR	1500	VAR	VAR	1500	VAR	VAR
DEACTIVATION/RELOCATION	А	200	VAR	VAR	1000	VAR	VAR	800	VAR	VAR	1000	VAR	VAR
ICF UPGRADES	А	300	VAR	VAR	450	VAR	VAR	250	VAR	VAR	250	VAR	VAR
DCSS/UPGRADES/MODERNIZATION	А				1500	VAR	VAR	2500	VAR	VAR			
NON-RECURRING ENG	Α	115	VAR	VAR	2790	VAR	VAR	2396	VAR	VAR	2387	VAR	VAR
DSCS EARTH TERMINAL RESOURCE MGT SYS	А	250	VAR	VAR	150	VAR	VAR	150	VAR	VAR	150	VAR	VAR
BILL OF MATERIEL SYSTEM	Α	476	VAR	VAR	488	VAR	VAR	487	VAR	VAR	504	VAR	VAR
PROJECT MGT ADMIN					990	VAR	VAR	900	VAR	VAR	1000	VAR	VAR
GOVERNMENT SUPPORT	Α	50	VAR	VAR	615	VAR	VAR	820	VAR	VAR	900	VAR	VAR
TOTAL		3930			10539			10111			10057		
* Project Mgt Admin was funded by OMA.													

	Fullilit D So Dudget Broowne		-l Diamaina					Date:		
Appropriation / Budget Activity/Serial No:	Exhibit P-5a, Budget Procureme	Weapon System			P-1 Line Item	n Nomenclature	ro.	<u> </u>	February 1	999
OTHER PROCUREMENT / 2 / Communications and	d Electronics			ļ			CONNECT FACILIT	Y (SPACE	Ē) (BB850₁	4)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
DCL/GGCL FY98	IN-HOUSE	MIPR		VAR	Dec-98		VAR		No	
FY99	IN-HOUSE	MIPR		VAR	Dec-99				No	
FY00	IN-HOUSE	MIPR		VAR	Dec-00	VAR			No	'
REMARKS:	IN-HOUSE	MIPR		VAR	Dec-01	VAR	VAR	Yes	No	

								Date:				
		Exhibit P-4	0, Budget I	tem Justific	ation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	<u> </u>				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				DSCS - JAM RESIS	TANT SECURE CO	MM (JRSC) (BA8300	0)	
Program Elements for Code B It	tems:			Code:	Other Related Progr	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	313.3	28.7	18.1	14.0	14.1	9.0	6.2	6.2	4.5	3.8		417.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	313.3	28.7	18.1	14.0	14.1	9.0	6.2	6.2	4.5	3.8		417.9
Initial Spares												
Total Proc Cost	313.3	28.7	18.1	14.0	14.1	9.0	6.2	6.2	4.5	3.8		417.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Jam Resistant Secure Communications (JRSC) provides communications connectivity that will survive jamming and high altitude nuclear events which cause High-Altitude Electromagnetic Pulse (HEMP) and other perturbed atmospheric conditions. In FY00/01, the Universal Modem System (UMS) is the only funded program. The other identified anti-jam systems have already been acquired. The UMS will enable strategic and tactical forces under the command of the U.S., U.K. and NATO to have interoperable voice and digital data satellite communications capability under jamming and nuclear scintillation, while using non-processing transponders of the DSCS III, NATO or SKYNET 4 satellite systems.

JUSTIFICATION: The FY00 funds procures seventy-nine (79) UMS's of various configurations for strategic satellite terminals. In addition, the Follow-On-Test and Evaluation (FOTE) will be conducted. FY01 funds provide for the fielding and support of the UMS.

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREN				em Nomenclature: AM RESISTANT S (JRSC) (BA83)	SECURE COMM		Weapon System	Type:	Date: Feb	ruary 1999
OPA	ID		FY 98	1.,		FY 99	(SICOO) (BAOS	00)	FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Cost Elements	CD		,	\$000		,	\$000			\$000		•	\$000
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
UMS:		7280	53	137				11175	79	141			
ENGINEERING CHANGE ORDERS DOCUMENTATION		4385 201			2099			383			146		
PROJECT MANAGEMENT		497			1144			1260			968		
ENGINEERING SUPPORT		1956			1076			516			1096		
SYSTEM ANALYSIS & INTEGRATION		2221			1500			269			415		
TRAINING/FIELDING								200			4641		
COMSEC		1397			506								
GFE/RACKS FOTE		176			1400 3300			534					
PPSS					3300			534					
SIMULATORS RSCCE					2942	5	588				1728		
TOTAL		18113			13967			14137			8994		

								Date:		-
E	Exhibit P-5a, Budget Procuremen							<u> </u>	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Ele	ectronics	Weapon Syste	em Type:			n Nomenclature CS - JAM RESI	re: SISTANT SECURE C	COMM (JR	(SC) (BA8	300)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type	 		Delivery	Each	\$000	Now?	Avail	
UNIVERSAL MODEM SYSTEM FY97	ROCKWELL-COLLINS RICHARDSON, TX	C/FP	СЕСОМ	Feb-97	Feb-00	18	333	Yes		
UNIVERSAL MODEM SYSTEM FY98	ROCKWELL-COLLINS RICHARDSON, TX	C/FP(Opt)	СЕСОМ	Mar-98	Jun-00	53	137	Yes		
UNIVERSAL MODEM SYSTEM FY00	ROCKWELL-COLLINS RICHARDSON, TX	C/FP(Opt)	СЕСОМ	Nov-99	Feb-02	79		Yes		
RSCCE/SLEP FY99	STANFORD TELECOM COLORADO SPRINGS, CO	C/FP	CECOM	Jan-99	Dec-01	5	506	Yes		
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REMARKS:										

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Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:					
OTHER PI	ROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t				DSCS - OPERATION	NS CONTROL SYS (DOCS) (SP (BB850	99)	
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
						_	_					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	456.2	10.1	15.7	26.8	16.8	15.4	9.2	9.5	25.1	32.4		617.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	456.2	10.1	15.7	26.8	16.8	15.4	9.2	9.5	25.1	32.4		617.2
Initial Spares												
Total Proc Cost	456.2	10.1	15.7	26.8	16.8	15.4	9.2	9.5	25.1	32.4		617.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Defense Satellite Communications System (DSCS) Operations Control System (DOCS) provides for the management of DSCS earth terminal and satellite resources, which is required for rapid and efficient reaction to operational needs in support of the warfighter. DOCS is made up of a number of semi-automated subsystems which configure, monitor, maintain, and restore all communications links, and automatically control operations over these links. The Objective DSCS Operations Center (ODOC) will modernize the existing DOCS subsystems to provide improved satellite communications to Ground Mobile Forces and Strategic users. It will replace the existing (largely manual) control system, provide greatly enhanced responsive system control, reduce the number of personnel required, and increase overall system availability with associated reductions in operations and maintenance costs. DOCS supports control of the satellite payload, satellite communications network planning, satellite communications link performance monitoring, and control of ground satellite terminals. DOCS assures reliable satellite communications networks to support unique user mission requirements vital to national security under stressed and unstressed conditions.

JUSTIFICATION: FY00 funds procure the remaining Replacement BATSON (RBATSON) quantities, initial Replacement DSCS FDMA Control Subsystem (RDFCS) quantities, and Operational Databases. The RBATSON is required to provide security, authentication, and anti-jam waveform protection to satellite commands generated by the Replacement Satellite Configuration Control Element (RSCCE) for transmission to DSCS III satellites. The RDFCS is required to provide automatic level power control of FDMA links. This allows operation of FDMA links with reduced power margins without sacrificing link quality. The net result is more communications capabilities for the users. Operational Databases are satellite unique databases required for command and control of DSCS III satellites. FY00 also funds annualized engineering, matrix, system integration, and fielding support of current and prior year procurements.

FY01 funds procure the DSCS Spectrum Management System (DSMS) and DOCS Training System (DTS). DSMS replaces the aging, obsolete DSCS Automatic Spectrum Analyzer (DASA). DSMS will employ advanced Digital Signal Processing techniques to provide rapid characterization of transponder utilization and time

Exhibit P-40C Budget It	tem Justification Shee		Date February 1999
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature	,
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		ı	DSCS - OPERATIONS CONTROL SYS (DOCS) (SP (BB8509)
Program Elements for Code B Items	Code Other Related Pro	gram Elements	
analysis to keep pace with the rapid signal characterization	n. DTS is emulation/sin	nulation software modules	used to train personnel (MOS 31S) on both the new and
upgraded DOCS subsystems. FY01 also funds annualized			

Exhibit P-5, Weapon OPA Cost Analysis		PROCUREN				m Nomenclature: OPERATIONS CO (DOCS) (SP (BB			Weapon System	Туре:	Date: Feb	ruary 1999
OPA III		FY 98			FY 99	(,		FY00		FY 01	
Cost Elements	D TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware: DFCS Upgrade MIDAS RSCCE RBATSON ODOC GTC3 RDFCS DSMS	1089 6000		9 500	2879 1677 7139 1428		576 186 476 14	1063 560	7			15	275
Software	1419			4087			8054			4427		
ECP'S				402			411			329		
Government Engineering	1820			1907			1700			1400		
Contractor Engineering	910			862			581			861		
System Integration	2612			2170			2123			2421		
Documentation	719			2871			1481			860		
Fielding	989			1091			496			630		
PM Admin	135			335			335			335		
TOTAL	15693			26848			16804			15391		

								Date:		
	it P-5a, Budget Procureme								February ⁻	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	3	Weapon Syst	ет Туре:			Nomenclature S - OPERATIO	e: ONS CONTROL SY	S (DOCS	(SP (BB8	3509)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date		QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issu Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
DFCS Upgrade FY98	Stanford Telecom, Inc Colorado Springs, CO	C/FP	ARMY SPACE COMMAND	Mar-98	Jan-99	126	9	Yes		
MIDAS FY98	Raytheon Marlboro, MA	C/FP	CECOM	Apr-98	Apr-99	12	500	Yes		
Replacement Satellite Configuration Control Element (RSCCE) FY99	Stanford Telecom, Inc Colorado Springs, CO	C/FP(Opt)	СЕСОМ	Feb-99	Aug-01	5	576	Yes		
Replacement BATSON (RBATSON) FY99 FY00	Stanford Telecom, Inc Colorado Springs, CO	C/FP(Opt)		Mar-99 Jan-00	Apr-00 Sep-00	9 7	186 152	Yes Yes		
ODOC Workstations FY99	Stanford Telecom, Inc Colorado Springs, CO	C/FP	ARMY SPACE COMMAND	Dec-98	Nov-99	15	476	Yes		
Global Terrestrial Critical Control Circuit (GTC3) FY99	TBS	C/FP	GSA	Mar-99	Feb-00	99	14	Yes		
Replacement DFCS FY00	TBS	C/FP	СЕСОМ	Jan-00	Jan-02	8	70	No		
DSMS FY01	TBS	C/FP	СЕСОМ	Jan-01	Jan-02	15	275	No		
REMARKS:										

							P-1	Item I	Nome	enclat	ure:												Date	e:							
FY 98 / 99 BUDGET PR	<u>OD</u> UC	TION SO	HED	ULE					DSC	CS - OF	PERA	TIONS	CON	ITROL	SYS	(DOCS	S) (SP	(BB8	509)								Febru	uary 1	999		
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RBATSON	4	FY99	Α	9	0	9																		Α							9
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2 Raytheon, Marlboro, MA		1		1	2			2	INITIA					0			6			12			18				RSCC				
3 Stanford Telecom, Inc., Colorado Springs, CO		1		3	4		L			RDER				N/A			N/A			N/A							RBAT				
4 Stanford Telecom, Inc., Colorado Springs, CO		1		2	3			3	INITIA					11			4			30			34				GTC3				
5 Stanford Telecom, Inc., Colorado Springs, CO		10		20	3 30			4		RDER				N/A			N/A			N/A			10				RDFC				
6 TBS 7 TBS		10 1		25	30	1		4	INITI/	AL RDER				11 0			5 3			13 8			18 11		MF	≺#8 =	DSMS	j .			
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2 Raytheon, Marlboro, MA		1		1	2			2	INITIA					0			6			12			18				= RSC = RBA				
Stanford Telecom, Inc., Colorado Springs, CO Stanford Telecom, Inc., Colorado Springs, CO		1		2	3		┢	3	REOF	RDER			-	N/A 11			N/A 4			N/A 30		_	34		М	FR#5 :	= ODO	C			
5 Stanford Telecom, Inc., Colorado Springs, CO		1		2	3		1	J		RDER				N/A			N/A			N/A			34				= GTC: = RDF				
6 TBS		10		20	30	1	T	4	INITIA					11			5			13			18	,			= KDF = DSM				
7 TBS		1		25	30		L			RDER				0			3			8			11								
8 TBS		2		5	7			5	INITIA					0			2			11			13								
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FY 98 / 99 BUDGET PRO	DUC	CTION SC	HED	ULE					DSC	cs - o	PERA	TIONS	S CON	ITROL	SYS	(DOC	S) (SF	P (BB8	3509)								Feb	ruary '	1999		
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COST ELEMENTS	R		R V		1 OCT	1 OCT	C	0 V	E C	A N	E B	A R	P R	A Y	U N	U	U G	E	O C T	0 V	E C	A N	E B				U N	U	U		
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4 Stanford Telecom, Inc., Colorado Springs, CO		1		2	3			3	INITI					11			4			30		Г	34			=R#5 = =R#6 =					
5 Stanford Telecom, Inc., Colorado Springs, CO		1		2	3		L		REO	RDER				N/A			N/A			N/A						-R#0 =					
6 TBS		10		20	30			4	INITI					11			5			13			18		MI	FR#8 =	= DSM	S			
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		Exhibit P-4	I0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	=				
OTHER P	ROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				DSCS - MOD C	F IN-SVC EQUIP (S	PACE) (BB8416)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	269.8	33.5	32.0	31.6	17.0	26.0	23.2	21.4	19.4	17.0		490.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	269.8	33.5	32.0	31.6	17.0	26.0	23.2	21.4	19.4	17.0		490.9
Initial Spares												
Total Proc Cost	269.8	33.5	32.0	31.6	17.0	26.0	23.2	21.4	19.4	17.0		490.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: These modifications will modernize the aging AN/GSC-52 medium terminal (MT) so that all Defense Satellite Communications System (DSCS) Super High Frequency (SHF) strategic earth terminals use common electronics and logistics support. The result will extend the life of the terminals, increase readiness, reduce training and logistics support, conserve energy and improve maintainability. This modernization effort will eliminate system obsolescence, modernize existing equipment and provide component commonality with other existing strategic terminals.

JUSTIFICATION: FY00 & 01 funds are required to procure the second and third options for the AN/GSC-52 installation kits and components that are common to the other DSCS satellite terminals.

	Exhil	oit P-40M Budget I	tem Justific	ation Sheet			Date		February 1999		
Appropriation / Budget Activit					P-1 Item Nomenclatu	ire			, , , , , , , , , , , , , , , , , , , ,		
	R PROCUREMENT / 2 / Communicati	ions and Electronics Equipment					DSCS - MOD OF	IN-SVC EQUIP (S	PACE) (BB8416)		
Program Elements for Code	B Items		Code	Other Related Progr	am Elements						
Description		Fiscal Years									
OSIP NO.	Classification	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004/5	TC	Total
AN/GSC-52 Mod		1 1 1007	1 1 1000	1 1 1000	1 1 2000	1 1 2001	1 1 2002	2000	200 ./0		Total
1-89-07-0030		20.3	25.4	28.2	17.0	26.0	23.2	21.4	36.4		197.9
Terminal Modern	nization										
1-89-07-0005		13.2	6.6	3.4	0.0	0.0	0.0	0.0	0.0		23.2
Totals		33.5	32.0	31.6	17.0	26.0	23.2	21.4	36.4		221.1

INDIVIDUAL MODIFICATION Date February 1999

MODIFICATION TITLE: AN/GSC-52 Modernization 1-89-07-0030

MODELS OF SYSTEMS AFFECTED: AN/GSC-52 Modernization

DESCRIPTION / JUSTIFICATION:

The modernization effort of the AN/GSC-52 System will eliminate obsolescence, modernize the existing equipment and provide commonality with other existing terminals. The acquisition strategy consists of a two contract approach. In FY97, components which are common to the AN/GSC-39 and AN/FSC-78/79 terminals were purchased from an existing contractual vehicle as a cost effective means to insure component commonality for these DSCS Terminals. A contract was awarded in FY98 for the production of installation kits and installation of the AN/GSC-52 hardware. The guidance was directed by DISA DSCS Program Plan FY93-98, dated January 1994. FY99 funds continue the acquisition of AN/GSC-52 installation kits and continue the procurement of common components.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

FY00 and FY01 funds are required to continue the acquisition of AN/GSC-52 installation kits and continue the acquisition of common components.

Installation Schedule:																						
	Pr Yr		FY	1997			FY ′	1998			FY	1999			FY	2000				FY:	2001	
	Totals	1	2	3	4	1	2	3	4	1	2	2 3	3	4	1	2	3	4	1	2	3	4
Inputs																					2	1
Outputs																						2
		FY 2	2002			FY 2	2003			FY 2	004			F١	2005				To			Totals
	1	2	3	4	1	2	3	4	1	2	3	3	4	1	2	3	4	Cor	mplete			
Inputs	2	2	2	2	3	3	3	3	3	3	3	3	3	2	2							39
Outputs	1	2	2	2	2	3	3	3	3	3	3	3	3	3	2	2						39
METHOD OF IMPLEM	IENTATI	ON:	MWO			ADMIN	ISTRAT	TIVE LE	ADTIME	:	3	Month	S	PROI	DUCTIO	N LE	ADTI	ME:		Months		
Contract Dates:			FY 199	7				FY 199	8	May 98				FY 19	99	Jan	99			FY2000		Jun 00
Delivery Date:			FY 199	7				FY 199	8	Jun 01				FY 19	99	Aug	01			FY2000		Jan 03

					IND	IVIDUA	L MODIF	FICATIO	N							Date		Febr	uary 1999	
MODIFICATION TITLE (Cont):		AN	/GSC-5	52 Mo	derniza	tion 1-	89-07-0	0030												
FINANCIAL PLAN: (\$ in Millions)																				
,	FY 19	998																		
	and I	Prior	FY 1		FY 2		FY 2		FY 20		FY 2		FY 2			2005	Т		TOT	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
AN/GSC-52 Mod Hardware	39	18.9																	39	18.9
Other Hardware		0.6																		0.6
Vans	2	0.2	10	0.8	6	0.5	10	0.9	2	0.2									30	2.6
Restoral Terminals	1	1.3	3	4.0															4	5.3
Installation Kits (recurring)	3	2.3	8	6.0	8	6.0	10	7.5	6	4.5	4	3.0							39	29.3
Installation Kits (nonrecurring)		5.9																		5.9
Antenna Modernization		0.4		1.1		1.1		1.4		0.9		0.6								5.5
Engineering Change Orders				4.5		3.1		4.4		3.1		0.6		0.3		0.2				16.2
Data/Documentation		3.2		0.4		0.2		0.2		0.2		0.2								4.4
Testing		1.6						0.1		0.4		0.9		0.5		0.4				3.9
Training						0.2		0.3		0.4		0.3								1.2
Total Package Fielding						0.1		0.2		0.5		0.7		0.9		0.9				3.3
Interim Contractor Support								0.3		1.3		3.9		2.1		6.4				14.0
Project Mgmt Admin		0.4		0.3		0.3		0.3		0.3		0.3		0.3		0.3				2.5
Government Support		2.2		3.2		2.0		2.3		1.9		1.4		1.0		0.7				14.7
Software Development/PDSS		8.1				1.3		1.3		1.3		1.3		1.3		1.4				16.0
Other DSCS Term Hardware				7.9		2.2		5.0		3.4		1.0		5.8		4.3				29.6
Taxes																				
Total Procurement Costs		45.1		28.2		17.0		24.2		18.4		14.2		12.2		14.6				173.9
FY98							3	1.8						· _ · _					3	1.8
FY99									8	4.8									8	4.8
FY00									J		8	4.8							8	4.8
FY01											4	2.4	6	3.6					10	6.0
FY02												,	6	3.6					6	3.6
FY03														2.0	4	2.4			4	2.4
Total Installment		45.1					3	1.8	8	4.8	12	7.2	12	7.2	4	2.4			39	23.4
Total Installment Total Procurement Cost		45.1		28.2		17.0	3	26.0	0	23.2	12	21.4	12	19.4	4	17.0			39	197.3

INDIVIDUAL MODIFICATION

Date

February 1999

MODIFICATION TITLE: Terminal Modernization 1-89-07-0005

MODELS OF SYSTEMS AFFECTED: AN/FSC-78/79, AN/GSC-39, and AN/TSC-86

DESCRIPTION / JUSTIFICATION:

The AN/FSC-78/79 Heavy Terminal (HT), and AN/GSC-39 Medium Terminal (MT) began operation in the mid-70's & have surpassed their 15 year design life. The original systems were fielded with a required Mean Time Between Failures (MTBF) of 1,000 hours. Due to aging, the MTBF degraded significantly. The Terminal Mod program eliminates system obsolescence and enables the terminals to achieve the required 1,000 hours MTBF. The contract was awarded in Mar 92 for this modernization effort, which provides for upgrading of aging electronics in HT/MT satellite earth terminals so all Defense Satellite Communications Systems (DSCS) Super High Frequency (SHF) strategic earth terminals will use common electronics & logistics support. The result extends the life of the terminals for another 15 years, enhances operational readiness, reduces training & logistics support, conserves energy & improves maintainability. This Tri-Service DOD Program was approved in the FY91-95 DSCS Program Plan, Jun 89. FY99 funds are required to complete installation/fielding of the Terminal Mod Program.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

No specific HT/MT Acquisitions in FY00/01.

Installation Schedule:																					
	Pr Yr		FY	1997			FY 19	98			FY	1999			FY 2	2000			FY:	2001	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	. 1	2	3	4
Inputs	24	3	3	3	3	4	4	4	2	2											
Outputs	24	3	3	3	3	4	4	4	2	2											
									-								·				
		FY:	2002			FY 20	003			FY 20	004			FY 2	2005			To			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	С	omplete			
Inputs																					52
Outputs																					52
METHOD OF IMPLEN	IENTATI	ON:	MWO			ADMINIS	STRATI	/E LEAI	DTIME:		5	Months		PRODU	JCTION	LEAD	TIME:	15	Months		
Contract Dates:	FY 1997							Y 1998						FY 199	9						
Delivery Date:			FY 199	97			F	Y 1998						FY 199	9						

					IN	IDIVIDU	AL MOD	IFICATI	ON							Date		Febru	ary 1999	
MODIFICATION TITLE (Cont):		Te	rminal	Moder	nizatio	n 1-89-	07-00	05												
FINANCIAL PLAN: (\$ in Millions)			_																	
		1996																		
		Prior		1997		1998		1999		2000		2001		2002		2003		C	TOT	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
Reprogram to Higher Army Priori	ities	3.4																		3.4
PROCUREMENT																				
Equipment		126.1		5.1																131.2
Equipment (nonrecurring)		16.7																		16.7
Installation Kits (recurring)	52	8.7																	52	8.7
Installation Kits (nonrecurring)		5.4																		5.4
Engineering Change Orders		7.4																		7.4
Data		12.2																		12.2
Training Equipment		2.6																		2.6
Support Equipment		0.3																		0.3
GFE		6.3																		6.3
Project Mgt Admin		3.0		0.5		0.5		0.3	3											4.3
Fielding		2.8		0.3		0.3		0.2	2											3.6
Interim Contractor Support		5.9		0.6		0.6		0.4	ı											7.5
Gov't/Contr Support		14.6		1.1		1.0		0.5	5											17.2
Installation of Hardware																				
FY 1996 & Prior Eqpt Kits	24	14.8	12	5.6	14	4.2	2	2.0)										52	26.6
FY 1997 Eqpt Kits																				
FY 1998 Eqpt Kits																				
FY 1999 Eqpt Kits																				
FY 2000 Eqpt kits																				
FY 2001 Eqpt kits																				
FY 2002 Eqpt kits																				
FY 2003 Eqpt kits																				
(FY(TC) Eqpt (xx kits)																				
Total Installment	24	14.8	12		14	4.2	2	2.0)										52	26.6
Total Procurement Cost		230.2		13.2		6.6		3.4	1											253.4

		Exhibit P-4	0, Budget l	tem Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	erial No:					P-1 Item Nomencla	ture:	<u>!</u>				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t					SHF TERM (BA9350	0)		
Program Elements for Code B It	ems:			Code:	Other Related Prog	ram Elements:						
				Α								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty			6	4	13	33						56
Gross Cost	0.0	13.3	15.3	25.3	32.0	62.2	70.3	49.2	49.6	11.5	0.0	328.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	13.3	15.3	25.3	32.0	62.2	70.3	49.2	49.6	11.5	0.0	328.7
Initial Spares												
Total Proc Cost	0.0	13.3	15.3	25.3	32.0	62.2	70.3	49.2	49.6	11.5	0.0	328.7
Flyaway U/C												·
Wpn Sys Proc U/C												

DESCRIPTION: Super High Frequency (SHF) Tri-Band Advanced Range Extension Terminal (STAR-T) is a Heavy High Mobility Multi-purpose Wheeled Vehicle (HMMWV) mounted, multi-channel Tactical Satellite Terminal (TACSAT). It has a tri-band capability in the Super High Frequency (SHF) range and will operate over commercial and military SHF satellites. Selected terminals will also have an integrated switch that will interface with both commercial and joint military switching systems. The STAR-T is also being procured by the USMC and the Joint Communications Support Element (JCSE) and will selectively replace the current TSC-85 and TSC-93 SHF multi-channel TACSAT terminals.

JUSTIFICATION: In FY00, funds will procure thirteen STAR-T terminals, FY01 funds will procure thirty three. This program will replace the aging fleet of AN/TSC-85/93 terminals by providing Tri-Band communications capability for split based operations. The AN/TSC-85/93 terminals cannot meet the transportability and deployability requirements of a force projection Army, nor can they exploit commercial space as mandated by OSD. Prolonging the life of these terminals would result in rapidly escalating maintenance costs which negatively impact upon the O&M budget. The STAR-T will selectively replace the Ground Mobile Forces (GMF) terminals at Echelons Above Corps (EAC).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	PROCUREN	IENT / 2 /		P-1 Line Ite	m Nomenclature: SHF TERM (BAS	9350)		Weapon System	Type:	Date: Feb	uary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware (Terminals)	А	3625	6	604	2420	4	605	7866	13	605	19839	33	60
Hardware (Other): Switches/Baseband VME Infosec Module Universal Modem System					6255			9236 495 348			16844 1279 7308		
Net Planning Tools					2450			1893			3434		
GFE		3026			831			3076			6494		
ECP		7134			3073			1492			450		
Contractor Engineering		705			1439			1350			1286		
Government Engineering		399			796			677			689		
Government Program Mgmt		232			883			635			646		
Test		120			750			858			877		
HW/SW Integration					3084			2780			1869		
Fielding		40			815			1069			1168		
Support Equipment					263			175					
Computer-Based Training					2200								
Total		15281			25259			31950			62183		

	Exhibit P-5a, Budget Procureme							Date:	February 1	999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communica Equipment	ations and Electronics	Weapon Syst	em Type:		P-1 Line Item	Nomenclatur	e: SHF TERM (BA9	350)		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date		QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
HARDWARE										
FY1997	RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	CECOM	Feb-97	Mar-99	5	1121	YES		
FY1998	RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	СЕСОМ	Apr-98	Jan-00	6	604	YES		
FY1999	RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	СЕСОМ	Feb-99	Mar-00	4	605	YES		
FY2000	RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	СЕСОМ	Mar-00	Nov-00	13	605	YES		
FY2001	RAYTHEON COMPANY MARLBOROUGH, MA	FFP/OPT	СЕСОМ	Feb-01	Oct-01	33	601	YES		

REMARKS:

The STAR-T is a firm fixed price option to the Special Operations Forces Tactical Assured Connectivity System (SOFTACS) Tri-Band Terminal contract which was awarded in August 1996. Unit costs vary due to different configurations and complements of ancillary equipment.

FY 2000 / 2001 BUDGET PRODUCTION SCHEDULE N	EV 2000 / 2004 PUDGET B	DOD	UCTION	CCLIE				P-1	Item N	Nome	nclat	ure:	01			24005	0)							Date:								
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		Exhibit P-4	10. Budaet	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	SATITE	RM, EMUT (SPACE)			
Program Elements for Code B I			2444	Code:	Other Related Prog	ram Elements:		<u> </u>	, 2 (6: 7.62)	(1.1.200)		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	1538	754	110									2402
Gross Cost	41.7	18.5	7.0	2.4	1.5	0.0	0.0	0.0	0.0	28.1	0.0	99.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	41.7	18.5	7.0	2.4	1.5	0.0	0.0	0.0	0.0	28.1	0.0	99.3
Initial Spares												
Total Proc Cost	41.7	18.5	7.0	2.4	1.5	0.0	0.0	0.0	0.0	28.1	0.0	99.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Enhanced Manpack UHF Terminal (SPITFIRE) program replaces the existing inventory of single channel SATCOM radios to add Communications Security (COMSEC), and Demand Assigned Multiple Access (DAMA) capability to support all DoD, Special Operations Forces (SOF) and other Agencies. Joint Staff (JS) has mandated that all UHF satellite manpack terminals be secure and have DAMA capability. No other DoD manpack terminals possess the UHF DAMA capability, which allows more efficient use of limited satellite resources.

JUSTIFICATION: FY00 funding will field SPITFIRE prior year procurements.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	PROCUREM and Electro	IENT / 2 /		SAT TE	em Nomenclature: ERM, EMUT (SPA			Weapon System	Type:		ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware		2970	110	27									
Engineering Support Contractor Engineering Government Engineering Government Program Mgmt		450 781 330			400 442 155			200 293 150					
ECP's		245											
Test		348			615			300					
Fielding		1914			835			604					
TOTAL		7038			2447			1547					

				-				Date:		
Exhi	ibit P-5a, Budget Procurement							1 ′	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electron	nics	Weapon Syst	em Type:		P-1 Line Item	n Nomenclatur		OF\ /V772	22)	
Equipment		Contract			├ ──		TERM, EMUT (SPAC	Specs	00) Date	RFP Issue
WBS Cost Elements:	Contractor and Location	Method	Location of PCO	Award Date	Date of First		Unit Cost	Avail	Revsn	Date
Fiscal Years Hardware		and Type	<u> </u>		Delivery	Each	\$000	Now?	Avail	—
Hardware								'		
FY97 FY 98	Raytheon Sys Co, Ft. Wayne, IN Raytheon Sys Co, Ft. Wayne, IN		CECOM CECOM	Jun-97 Mar-98	Jan-99 Aug-99	754 110				
REMARKS:										

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COST ELEMENTS			V				T	V	C	N	В	R	R	Y	N	Ĺ	Ğ	P	T	V	C	N	В	R	R	Y	N	Ĺ		P	R
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	1	FY 97	OTH	15	0	15																						100	15		
	1	FY 98	А	110	0	110						Α																	\vdash	50	20
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	1	FY 98	МС	4	0	4																							i		4
	1	FY 98	OTH	164	0	164		T																					一十		164
	1	FY99	OTH	5	0	5		T														Α							一十		5
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COST ELEMENTS			V				Т	V	C	N	В	R	R	Y	N	L	Ğ	P	T	V	Ċ	N	В	R	R	Y	N	Ĺ	Ğ	P	R
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	1	FY 97	AF	203	203																										
	1	FY 97	OTH	15	15																										
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Raytheon Systems Company, Ft. Wayne, IN		75		150	150				REO	RDER							1			16			17		1						
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		Exhibit P-4	0, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:	<u> </u>				
OTHER F	PROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				NAVSTAR GLOBAL	POSITIONING SYST	TEM (SPACE (K4780	00)	
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
							_					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	27658	12017	17	14	14	7019	7120	12519	12864		TBD	79242
Gross Cost	197.6	26.1	5.3	6.5	6.6	31.5	32.7	49.9	48.2	44.8	288.0	737.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	197.6	26.1	5.3	6.5	6.6	31.5	32.7	49.9	48.2	44.8	288.0	737.2
Initial Spares												
Total Proc Cost	197.6	26.1	5.3	6.5	6.6	31.5	32.7	49.9	48.2	44.8	288.0	737.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The Navstar Global Positioning System (GPS) is a passive space based radio positioning and navigation system that provides position, velocity and time information to a user in three dimensions to 16 meters Spherical Error Probable (SEP). GPS User Equipment (UE) is a family of receivers that meet DoD requirements for Selective Availablity and Anti-Spoofing, provides the users with Precise Positioning Service (PPS), and is designed to accommodate the differing dynamic user environments to include handheld as well as host platforms. The Army acquisition strategy is to procure a mix of Non-Developmental Item (NDI) equipment that will satisfy all user/platform requirements while enforcing standardization in accordance with DoD policy. Current Army GPS UE includes the Miniaturized Airborne GPS Receiver (MAGR), (a NDI 5-channel set for Signal Warfare aircraft); the Precision Lightweight GPS Receiver (PLGR), (a NDI receiver for ground users and host vehicles); and the Stand Alone Air GPS Receiver (SAGR) and the Cargo Utility GPS Receiver (CUGR), (satisfy Army requirements for low dynamic Army aviation in the non-modernized fleet). Future Army GPS UE will include the Defense Advanced GPS Receiver (DAGR) (handheld); Miniaturized Airborne GPS Receiver 2000 (MAGR 2000); GPS Receiver Applications Module (GRAM) (embedded); and GPS/Inertial Navigation System (GPS/INS) (GPS with INS back-up). This new UE is scheduled for fielding to the Army during the FY01-FY06 timeframe and will include significant anti-jam and anti-spoof capabilities as a result of the ongoing Navigation Warfare (NAVWAR) Program.

JUSTIFICATION:

The FY-00 program will support Army participation in the joint service efforts to enhance GPS receiver anti-jam and anti-spoof capabilities under the Navigation Warfare Program. The FY-01 program will allow for the procurement of the Defense Advanced GPS Receiver (DAGR) and a limited number of Miniaturized Airborne GPS Receivers 2000 (MAGR 2000); additionally it will fund for the Precision Lightweight GPS Receiver (PLGR) re-utilization.

Exhibit P-5, Weapon		Appropriation/ Bu	dget Activity				em Nomenclature: R GLOBAL POSITI			Weapon System	Type:	Date:	ruary 1999
OPA Cost Analysis		Communications				INAVSTAR	SPACE (K478)					reb	iuaiy 1999
OPA	ID	Communications	FY 98	omeo Equipment		FY 99	(SPACE (N476	(100)	FY 00		l	FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
COSt Liements	OD	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		7		7	7		7	Ţ		7	,,,,,,		7
Hardware: 1. Defense Advanced GPS Receiver 2. Miniaturized Airborne GPS Receiver 2000											18821 294	8182 14	2
Defense Advanced GPS Receiver Source Selection					463								
Re-utilization and Software Upgrade - Precision Lightweight GPS Receiver											2366		
Engineering Support: Service Support Contracts Government In-House Integration Engineering		1769 1636			2300 1260 400			2600 1400 265			3814 1696 1000		
Test and Evaluation					420			395					
Total Package Fielding		316			184			122			1000		
Technical/Logistics Support		240			200			375			926		
Program Management Administration		1300			1300			1400			1585		
TOTAL		5261			6527			6557			31502		

								Date:		
Exhibit	P-5a, Budget Procurement	t History a	nd Planning						February 1	1999
Appropriation / Budget Activity/Serial No:		Weapon Syst	em Type:		P-1 Line Item	Nomenclatur	e:			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					NAVS	STAR GLOBA	L POSITIONING SY	STEM (S	PACE (K4	7800)
VBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Iss
riscal Years		and Type			Delivery	Each	\$000	Now?	Avail	Date
lardware:										
. Defense Advanced GPS Receiver										
Y 01	TBS	FFP-ID/IQ	USAF, Los Angeles AFB	Jun-O1	Jan-O2	8182	2	Yes		Apr
Mills 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1										
2. Miniaturized Airborne GPS Receiver FY 01	Raytheon Co, Marlborough, MA	FFP-ID/IQ	USAF, Los Angeles AFB	Oct-OO	Apr-O1	14	21	Yes		Jul 9
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REMARKS: DAGR - REP Release 1 Apr 99: Army i							_			

DAGR - RFP Release 1 Apr 99; Army initial full scale production buy - Jun 01

MAGR - Basic Contract Award Sep 98; first delivery Apr 99 for Navy requirement

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		Exhibit P-4	l0, Budget l	tem Justific	cation Sheet			Date: Februa	ary 1999			
Appropriation / Budget Activity/Se	rial No:					P-1 Item Nomencla	ture:	_				
OTHER PR	OCUREMENT / 2 / Cor	mmunications and El	ectronics Equipmen	t				GROUNI	D COMMAND POST	(BC4001)		
Program Elements for Code B Ite	ms:			Code:	Other Related Prog	gram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	6.7	0.7	0.6									8.0
Less PY Adv Proc												
Plus CY Adv Proc												1
Net Proc (P-1)	6.7	0.7	0.6									8.0
Initial Spares												
Total Proc Cost	6.7	0.7	0.6									8.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

Milstar Ground Command Post Terminals (GNDCP) - AN/FRC-181(V1) (fixed) and AN/TRC-194(V1) (transportable) terminals provide survivable, worldwide two-way anti-jam, and enduring voice and data communications. The Extremely High Frequency/Ultra High Frequency (EHF/UHF) command post terminals are designed for use with communications satellites which provide the next generation military satellite communications systems. GNDCP terminals are designed for high capacity command post operation to include a mission control segment interface, emergency action message dissemination, force direction, CINCNET operations, and full beam management. A contract for the remaining terminals was awarded in May 93 by the USAF. These terminals will be deployed for command, control, and special user missions, and will be operated and maintained by the Army. A total of seven (7) terminals were procured by the USAF for the Army and will be integrated into the Army Force Structure.

JUSTIFICATION:

Delivery of the US Air Force procured terminals to the Army for integration into the Army force structure began in Nov 93. The first Army terminal (Fort McPherson, GA) was accepted by the Army for operation in Feb 95. This project has been synchronized with and is in support of the Milstar Low Data Rate (LDR) spacecraft launches. This terminal will be operated and maintained by Army personnel to support CINC and NCA missions.

								Date:				
		Exhibit P-4	IO, Budget I	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ure:	-				
OTHER P	ROCUREMENT / 2 / Cor	mmunications and El	ectronics Equipmen	t				SMA	ART-T (SPACE) (BC	4002)		
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
	0303	142A		В								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty				45	77	44						166
Gross Cost	51.4	33.1	20.7	57.4	61.8	46.8	19.6	12.7	32.9	20.2	12.3	368.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	51.4	33.1	20.7	57.4	61.8	46.8	19.6	12.7	32.9	20.2	12.3	368.9
Initial Spares		1.6	1.0	1.4		2.7	2.6	2.0	1.4	1.2		13.9
Total Proc Cost	51.4	34.7	21.7	58.8	61.8	49.5	22.2	14.7	34.3	21.4	12.3	382.8
Flyaway U/C	2.4	1.3	N/A	1.2	0.7	0.9						
Wpn Sys Proc U/C	2.6	1.4	N/A	1.3	0.8	1.1						

DESCRIPTION:

SMART-T is a multi-channel satellite terminal required to support a Force Projection Army. It will provide range extension capability to the Army's Mobile Subscriber Equipment (MSE), a critical requirement demonstrated during Operation Desert Storm. Specifically, SMART-T will provide a satellite interface to permit uninterrupted voice/data communications as our advancing forces move beyond the MSE Line of Sight capability. These terminals will triple the battlefield capability with respect to Command, Control and Communications. SMART-T will provide connectivity between selected MSE Node Centers (NC), Large Extension Nodes (LEN), Small Extension Nodes (SEN), and Remote Radio Access Units (RAU), to support Echelons Corps and Below as well as Special Contingency Operations, and communicate with other service Milstar terminals. It will transmit in Extremely High Frequency (EHF) band and will receive in Super High Frequency (SHF) band. The terminal will operate at both Medium Data Rate (MDR) and Low Data Rate (LDR). It will be capable of unattended operation. SMART-T will have the inherent capability of low probability of interception and low probability of detection (LPI/LPD) to avoid being targeted for destruction, jamming, or eavesdropping. SMART-T is interoperable with all other Milstar terminals and is interoperable with Milstar, Navy UHF Follow-on and any MIL-STD-1582C compatible payloads.

JUSTIFICATION:

FY00 funds procure 77 and FY01 funds procure 44 Full Rate Production (FRP) terminals and associated failure-free warranty for the US Army; completes Total Package Fielding of Low Rate Initial Production (LRIP) terminals to US Army; procures contractor logistics, fielding and training support services; conducts Milstar Intersegment Tests; acquire 7 Milstar Voice Conferencing terminals for the White House Communications Agency (WHCA). The SMART-T acquisition strategy was developed to optimize the fullest on-orbit capability of the Milstar Medium Data Rate (MDR) payload. The SMART-T will be the only fielded Milstar MDR capable ground terminal at the time of satellite launch.

Engineering Support Milstar Voice Conferencing Data Data System Project Mgmt/Gov't Sara Servaluation GFE 771 1342 781 Fielding 1048 57370 61761 46834 1878 NOTE: Contract Terminal Cost element includes recurring & non-recurring costs and Contractor Systems Project Mgmt, Engineering Cange Proposals, and	Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	ROCUREM and Electro	MENT/2/		SM	m Nomenclature: IART-T (SPACE)	(BC4002)	Weapon System	Type:		ruary 1999
\$000 \$000										7			
SMART-T Contract Terminal Cost Engineering Support Milistar Voice Conferencing Data System Project Mgmt/Gov't System Test & Evaluation GFE Fielding NOTE: Contract Terminal Cost element includes recurring & non-recurring costs and Contractor Systems Project Mgmt, Engineering Cost Engineering Support Save System Project Mgmt, Engineering Support Save System Project Mgmt, Engineering Support Save System Project Mgmt, Engineering Support Save System Project Mgmt, Engineering Support Save System Project Mgmt, Engineering Costs element includes recurring costs and Contractor Systems Project Mgmt, Engineering Change Proposals, and	Cost Elements	CD		•			,						
NOTE: Contract Terminal Cost element includes recurring costs and Contractor Systems Project Mgmt, Engineering Change Proposals, and Modifications.	Contract Terminal Cost Engineering Support Milstar Voice Conferencing Data System Project Mgmt/Gov't System Test & Evaluation GFE		6378 3240 6387 3675	Luon	ţ.	40627 2500 102 5810 6815 771			44193 1682 84 5360 8849 1342		29881 1487 4600 187 5360 2730 781	44	67
Contract Terminal Cost element includes recurring & non-recurring costs and Contractor Systems Project Mgmt, Engineering Change Proposals, and	TOTAL		20728			57370			61761		46834		
	Contract Terminal Cost element includes recurring & non-recurring costs and Contractor Systems Project Mgmt, Engineering Change Proposals, and												

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Appropriation / Budget Activity/Serial No:	nibit P-5a, Budget Procurement	Weapon Syst			P-1 Line Item	Nomenclatur	e:		February [*]	1999
OTHER PROCUREMENT / 2 / Communications and Electric Equipment	onics					SI	MART-T (SPACE) (E			
VBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Iss Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
SMART-T										
FY96 FY97 FY99 FY00 FY01	Raytheon Co., Marlborough, MA Raytheon Co., Marlborough, MA Raytheon Co., Marlborough, MA Raytheon Co., Marlborough, MA Raytheon Co., Marlborough, MA	C/FP FP/OPT FP/OPT FP/OPT	CECOM CECOM CECOM CECOM CECOM	Feb-96 Dec-96 Jan-99 Nov-99 Nov-00	Apr-00 Apr-01	20 23 45 77 44		Yes Yes Yes		
REMARKS: 1) FY96 & FY97 - LRIP 2) PB FY00 procures 313 Joint S - Army = 209 - USAF = 73 - JCSE = 6 - USMC = 25 Total 313	Service requirements: 3) No terminal support, and tr		n FY98; funds procure contra ies.	actor time and	material su	upport of fie	Iding, logistics t	est		

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		Exhibit P-4	l0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	3				
OTHER P	PROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				sc	AMP (SPACE) (BC4	003)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
				Α								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	20.1	14.4	13.7	4.7	5.0	4.3	1.6	1.2	1.4	1.2	0.0	67.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	20.1	14.4	13.7	4.7	5.0	4.3	1.6	1.2	1.4	1.2	0.0	67.5
Initial Spares												
Total Proc Cost	20.1	14.4	13.7	4.7	5.0	4.3	1.6	1.2	1.4	1.2	0.0	67.5
Flyaway U/C												
Wpn Sys Proc U/C												

The SCAMP BLK I Terminal will provide a manportable, four simultaneous channel, full duplex data/half duplex voice communications and data transfer system at 2400 bps each. These satellite terminals are to be employed by units that require range extension for command and control communications. Block I will provide priority tactical ground users with the capability to transmit and receive intelligence, command, and control traffic from a base station. It will transmit in the Extremely High Frequency (EHF) band and receive in the Super High Frequency (SHF) band. It will provide Low Data Rate (LDR) secure voice at 2400 bps and secure data at 75-2400 bps, as well as interface with Common Hardware/Software devices such as the Lightweight Computer Units and the Hand-Held Terminal Unit. The SCAMP BLK I will be fully interoperable within the Army C4I Technical Architecture. The terminal will have embedded COMSEC and TRANSEC with set-up and tear-down in less than 10 minutes. In addition to operation on Milstar satellites, the SCAMP BLK I will operate on all satellites which utilize the MIL-STD-1582C/D LDR waveform. It will be required to operate in environmental conditions that include smoke, aerosol, rain, fog, snow, haze and dust, and must operate in the transmit, receive or stand-by mode throughout an entire mission (typically 30 days). SCAMP BLK I is the first EHF manportable terminal and provides direct support to the tactical warfighter mobile forces with greater anti-jam protection, lower probability of intercept, and lower probability of detection.

JUSTIFICATION:

FY00/01 funds Total Package Fielding (TPF) and New Equipment Training (NET) of Army Block I terminals, supports Joint Intersegment and Warfighter Interoperability Tests, incorporates EHF system level changes, procures Contractor Technical Support contract options and acquires two Milstar Voice Conferencing terminals for the White House Communications Agency (WHCA). Army Block I terminals are designated for Commanders at Division and Above levels. SCAMP Block I provides manportable EHF/LDR communications using the on-orbit satellites, and future launches.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	ROCUREN and Electro	IENT / 2 /		SO	em Nomenclature: CAMP (SPACE) (I			Weapon System	Type:		ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Contract Terminal Cost Engineering Support System Project Mgmt Gov't System Test Training Fielding Milstar Voice Conferencing		8389 620 1551 451 546 2155	196	43	1344 782 920 1650			1023 774 475 200 2061 500			1004 760 450 2078		
TOTAL		13712			4696			5033			4292		

	Exhibit P-5a, Budget Procurement							Date:	February	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communicati	ions and Electronics	Weapon Syst	em Type:		P-1 Line Item	Nomenclatur				
Equipment		Contract	_				SCAMP (SPACE) (B	C4003) Specs	Date	RFP Issu
WBS Cost Elements:	Contractor and Location	Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Avail	Revsn	Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Hardware										
FY96	Rockwell Collins, Richardson, TX	C/FFP	СЕСОМ	Feb-96	Sep-98	57	196	Yes		
FY97	Rockwell Collins, Richardson, TX		CECOM	Dec-96		93		Yes		
FY 98	Rockwell Collins, Richardson, TX	FFP/Opt		Mar-98	Dec-00	196		Yes		

REMARKS:

Multi-Service Procurement of a total of 516 SCAMP BLK I

- Army = 346 USAF = 154
- JCSE = 8 Army INSCOM = 6
- WHCA = 2

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		Exhibit P-4	0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S						P-1 Item Nomencla	ture:	<u> </u>				
	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen		Other Related Prog			GLOBAL	BRDCST SVC - GBS	S (BC4120)		
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	7.3	5.9	10.9	9.4	21.7	23.0	10.1	14.2	0.0	102.5
Less PY Adv Proc												
Plus CY Adv Proc												·
Net Proc (P-1)	0.0	0.0	7.3	5.9	10.9	9.4	21.7	23.0	10.1	14.2	0.0	102.5
Initial Spares												1
Total Proc Cost	0.0	0.0	7.3	5.9	10.9	9.4	21.7	23.0	10.1	14.2	0.0	102.5
Flyaway U/C												
Wpn Sys Proc U/C												·

Global Broadcast Service (GBS) is a joint service program that responds to the need for a high-speed, one-way broadcast of high volume multi-media information such as imagery, maps, weather data, logistics, air tasking orders, etc., to users worldwide. GBS is an integral part of the Defense Information Infrastructure (DII) and a part of the overall DoD Milsatcom architecture. The DoD GBS initiative was formalized by a Joint Acquisition Decision Memorandum, 27 Mar 96. The Army is the GBS Joint Project Office's (JPO) Integrated Product Team (IPT) lead for the Fixed Ground Receive Suites (FGRS) and Transportable Ground Receive Suites (TGRS) acquisition for all users. The Army is also the JPO IPT lead for the Theater Injection Points (TIP).

The GBS TGRS consist of a small satellite tracking and receiving antenna which receives and demodulates the RF downlink signal into a bit stream for receive broadcast management computer to decrypt and distribute to end users. An in-theater injection capability via Theater Injection Points (TIPs) will be designed to broadcast vital Commander in Chief (CINC)/ Commander Joint Task Force (CJTF) in-theater information to in-theater TGRS. The Army's total objective is a total of three TIPS and 504 TGRS.

JUSTIFICATION:

FY00 funds will procure 40 TGRS and the Army's second TIP which will be fielded to PACOM. FY 01 funds will procure 14 TGRS plus the third TIP which will be fielded to EUCOM. The need for the GBS communication system was validated by the Joint Requirements Oversight Committee (JROC) in a Joint Mission Need Statement, dated 3 Aug 95, and Joint Operational Requirements Document, dated 7 Apr 97. The GBS Phase II concept was validated by use of a GBS Phase I demonstration system in support of the Bosnia peace mission and Joint Warfighting Interoperability Demonstration (JWID) 95.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	ROCUREN	IENT / 2 /		GLOBAL	em Nomenclature: _ BRDCST SVC -	GBS (BC4120)		Weapon System	Туре:		ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Receive Suite (H/W, S/W) TRS Config 3								1310	10	131	1212	9	135
TRS Config 2					367	6	61	1860	30	62	308	5	62
Theater Injection Pt. (TIP) (HW/SW) TIP ECP		2953	1	2953	1895			3081	1	3081	3148	1	3148
GFE					84			732			345		
Engineering		2097			420			350			270		
Government Progrm Mgt		515			627			538			545		
Data, Logistics, Training, Support Equipment		1719			1013			1002			1060		
Test					474			526			166		
ECO's					324			304			235		
Fielding					652			1217			2063		
TOTAL		7284			5856			10920			9352		

	xhibit P-5a, Budget Procureme							Date:	February ⁻	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Ele	ectronics	Weapon Syste	em Type:		P-1 Line Item	Nomenclature				
Equipment	Johnson			_		GLOBA	L BRDCST SVC - 0	•		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
TIP (FY98)	Raytheon, Reston, VA	CPAF/OPT	USAF, GBS JPO, LA CA	Mar-98	Apr-00	1	2953	YES		
TIP (FY00)	Raytheon, Reston, VA	CPAF/OPT	USAF, GBS JPO, LA CA	Dec-99						
TIP (FY01)	Raytheon, Reston, VA		USAF, GBS JPO, LA CA		Feb-02					
Receive Suite Config 2 (H/W, S/W)										
FY 1999	Raytheon, Reston, VA	CPAF/OPT	USAF, GBS JPO, LA CA	Mar-99	Aug-00	6	61	YES		
FY 2000	Raytheon, Reston, VA	CPAF/OPT	USAF, GBS JPO, LA CA	Dec-99	May-01					
FY 2001	Raytheon, Reston, VA	CPAF/OPT	USAF, GBS JPO, LA CA	Dec-00	Jun-01					
Receive Suite Config 3 (H/W, S/W)										
FY 2000	Raytheon, Reston, VA	CPAF/OPT	USAF, GBS JPO, LA CA	Aug-00	May-01	10	131			
FY 2001	Raytheon, Reston, VA	CPAF/OPT	USAF, GBS JPO, LA CA	Dec-00	Jun-01	9	135			

REMARKS:

TGRS - Transportable Ground Receive Suite

TIP - Theater Injection Point

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		-					Т	V	С	Ν	В	R	R	Υ	N	L	G	Р	Т	٧	С	N	В	R			Ν	L	G	Р	
M F		F	RODUCT	ON RATES	1	REACHED		IFR mber					Pri	ADI ior 1 C		EAD Τ	IME ter 1 C	Oct	Δf	MFR ter 1 C	Oct	Δ.	TOTA			REMAR S. Joir		ıram C	Office C	`ontra	ct
R NAME / LOCATION		MIN.	1	-8-5	MAX.	D+			INITIA	ΑL				5		Al	5		A	25		_^	30			ard N		,. u. 11 C		Jima	
1 Raytheon (S-tel Colorado Springs, CO)		1		2	4			_		RDER							3			14			17		1						
2 Raytheon, Fort Wayne, IN		10		20	30	1		2	INITI/	AL RDER							3			17 15			20 18		1						
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		Exhibit P-4	0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S						P-1 Item Nomenclat	ure:	<u> </u>				
OTHER P	PROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t				MOD OF IN-	SVC EQUIP (TAC S	AT) (BB8417)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	251.7	5.4	1.9	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	261.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	251.7	5.4	2.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	261.0
Initial Spares												1
Total Proc Cost	251.7	5.4	2.0	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	261.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program will provide a tactical satellite communications capability to meet critical Ground Mobile Forces (GMF) Command, Control and Communication (C3) needs not satisfied by conventional terestrial communications systems. The (GMF) are those components of the Army, Navy, Air Force, Marine Corps, Special Operations Forces and Joint Communications Support Element engaged in land, tactical air combat and amphibious operations ranging from single-service crisis missions to mutually supportive joint-service combat scenarios. Mod Of In-Svc Equipment (TACSAT) funds the upgrades to Army tactical satellite communications equipment.

JUSTIFICATION: The FY00 funds will be used to manage and field prior year procurements of Lightweight High Gain X-Band Antennas (LHGXA). This program will allow the warfighter access to the Defense Satellite Communications System in support of reach-back communications requirements for power projection. This is in line with the continued upgrades of Army tactical satellite communications equipment.

·	·							Date:				
		Exhibit P-4	0, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:	-				
OTHER P	PROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t			G	LOBAL CMD & CON	TROL SYSTEM-ARI	MY (GCCS-A) (BA8	250)	
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
						_	1	1				
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	28.3	20.7	15.1	20.5	13.0	8.5	6.3	6.3	8.4	30.0	81.0	238.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	63.7	20.7	15.1	20.5	13.0	8.5	6.3	6.3	8.4	30.0	81.0	273.5
Initial Spares												
Total Proc Cost	63.7	20.7	15.1	20.5	13.0	8.5	6.3	6.3	8.4	30.0	81.0	273.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Global Command and Control System-Army (GCCS-A) provides the Army's interface to Joint Staff Global Command and Control System (GCCS) program. GCCS-A is being implemented in accordance with the GCCS concept of Defense Information Infrastructure Common Operating Environment (DII COE) and the Army Battle Command System (ABCS) Operational Requirements Document (ORD). The GCCS-A is the integration of software, hardware and communication architecture supporting strategic and tactical environments. The software development requirements for GCCS-A will be satisfied through a single systems engineering and integration contract which was awarded in December 1994. The intent is to field an integrated command and control (C2) system that provides standard, modular, system support and application software support capable of providing a "tailored" set of functional applications and compatible, integrated exchange of data both horizontally and vertically throughout the Army hierarchy. This will accommodate a flexible, interoperable C2 system that can be tailored for various levels of command and will ensure connectivity. GCCS-A will support operations during peace as well as war including contingency and natural disaster operations. It will support major Army commands (MACOMS), Army Commanders in Chiefs (CINCs), Army Commands and Components, and Army elements within the Pentagon. The GCCS-A will support all staff sections within a headquarters, and all phases of conflict. Hardware fielding efforts through FY 00 will focus on equipping all Army-managed worldwide C2 sites. Beginning in FY 01, emphasis will be on upgrading previously fielded hardware to ensure consistency and compatibility with current technologies.

JUSTIFICATION: FY 00/01 funds will support the procurement and fielding of GCCS-A at all Army-managed worldwide command and control sites. Fielding of GCCS-A is mandatory in order for the Army to remain in lock step with GCCS milestones, and support the Army Battle Command System.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	PROCUREM and Electro	ENT/2/		GLOBAL C	m Nomenclature: CMD & CONTROL (GCCS-A) (BA8	SYSTEM-ARMY 250)		Weapon System	Туре:		uary 1999
OPA	ID	T / 10 /	FY 98	11.30	T . 10	FY 99		T . 10 .	FY 00	11.70	T / 10 /	FY 01	11.70
Cost Elements	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Sun Enterprise 4000/4500	Α	ΨΟΟΟ	Lacii	ΨΟΟΟ	700	2	350	724	2	362		Lacii	ΨΟΟΟ
2. Ultra 2 LAN Servers		589	17	35	4860	108	45	2021	43	47	196	4	49
3. Ultra (V2) Servers		158	3	53	325	5	65	335	5	67			
 Sun Ultra 5 Workstations (Upgrade Sun Sparc 5) 					1520	380	4	768	192	4	192	48	2
5. PC (Pentium Class) User Workstations		731	199	4	1648	412	4	632	158	4	40	10	4
6. Bill of Material (BOM)*		3508			284			228			62		
7. Fielding (LMC)		1828			2329			2299			2741		
8. Fielding (Wang/FCBS)		817			1015			1015			1035		
9. PMO Fielding Support		3000			3000			2915			2871		
10. First Digitized Division/Corps		1483			1315			1276			1389		
11. GCCS-A Training Support		2287			3509			750					
12. GCCS to Corps		678											
TOTAL		15079			20505			12963			8526		
*Site-unique hardware required to support installation and fielding. Includes LAN cables, racks, routers, etc.													

propriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Fauloment S Cost Elements: Contractor and L cal Years Sun Enterprise 4000 99 GTE, Taunton, MA GTE, Taunton, MA Ultra 2 Servers	Ocation Weapon System Contract Method and Type IDIQ IDIQ	Location of PCO	Award Date		Nomenclature AL CMD & CO QTY Each	e: NTROL SYSTEM-A Unit Cost \$000	RMY (GC Specs Avail Now?	Date Revsn	A8250) RFP Iss Date
S Cost Elements: Contractor and Local Years Sun Enterprise 4000 99 GTE, Taunton, MA GTE, Taunton, MA	Method and Type IDIQ	СЕСОМ		Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Iss
S Cost Elements: Contractor and Load Years Sun Enterprise 4000 99 GTE, Taunton, MA 00 GTE, Taunton, MA	Method and Type IDIQ	СЕСОМ					Avail	Revsn	
Sun Enterprise 4000 99 GTE, Taunton, MA 00 GTE, Taunton, MA	IDIQ	СЕСОМ	Feb-00	Delivery	Each	\$000	Now?		
GTE, Taunton, MA GTE, Taunton, MA			Feb-00					Avail	
00 GTE, Taunton, MA			Fah-00						
	IDIQ	CECOM	1 60-33	Jun-99	2	350	YES		
Ultra 2 Servers			Feb-00	Jun-00	2	362	YES		
0.1.1.4 2 00.1.0.0									
98 ICASE, Maxwell AFB,	AL IDIQ	Maxwell AFB, AL		May-98	17	35	YES		
99 ICASE, Maxwell AFB,	AL IDIQ	Maxwell AFB, AL		May-99	108	45	YES		
100 ICASE, Maxwell AFB,	AL IDIQ	Maxwell AFB, AL		May-00	43	47	YES		
01 ICASE, Maxwell AFB,	AL IDIQ	Maxwell AFB, AL	Feb-01	May-01	4	49	YES		
Ultra (V2) Servers									
98 GTE, Taunton, MA		NCECOM	Feb-98	Jun-98	3	53	YES		
99 GTE, Taunton, MA	C/OPTIO	N CECOM	Feb-99	Jun-99	5	65	YES		
GTE, Taunton, MA	C/OPTIO	N CECOM	Feb-00	Jun-00	5	67	YES		
Sun Ultra 5 Workstations									
99 GTE, Taunton, MA		NCECOM	Feb-99	Jun-99	380	4	YES		
GTE, Taunton, MA		N CECOM	Feb-00	Jun-00	192	4	YES		
GTE, Taunton, MA	C/OPTIO	NCECOM	Feb-01	Jun-01	48	4	YES		
PC (Pentium Class) User Workstations									
98 GTSI, Chantilly, VA	IDIQ	FEDSIM/FT Huachuca	Feb-98	Apr-98	199	4	YES		
99 GTSI, Chantilly, VA	IDIQ	FEDSIM/FT Huachuca	Feb-99	Apr-99	412	4	YES		
00 GTSI, Chantilly, VA	IDIQ	FEDSIM/FT Huachuca	Feb-00	Apr-00	158	4	YES		
01 GTSI, Chantilly, VA	IDIQ	FEDSIM/FT Huachuca	Feb-01	Apr-01	10	4	YES		
,,									

								Date:				
		Exhibit P-4	0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	8				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				ARMY DATA I	DISTRIBUTION SYS	TEM (BU1400)		
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
								1	1			
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	447.0	77.5	64.9	46.9	38.8	38.3	32.2	34.2	60.1	120.7	2500.0	3460.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	447.0	77.5	64.9	46.9	38.8	38.3	32.2	34.2	60.1	120.7	2500.0	3460.6
Initial Spares												
Total Proc Cost	447.0	77.5	64.9	46.9	38.8	38.3	32.2	34.2	60.1	120.7	2500.0	3460.6
Flyaway U/C												
Wpn Sys Proc U/C												

The Army Data Distribution System (ADDS) is a Command, Control, and Communication (C3I) network consisting of the Data Radios Systems: Enhanced Position Location Reporting System (EPLRS), Near Term Digital Radio (NTDR). EPLRS is a direct outgrowth of the Army/United States Marine Corps (USMC) Position Locating Reporting System (PLRS) and provides battlefield commanders combat information on the position of their forces in addition to supporting the majority of the data communication needs of the Army's brigade & below tactical internet as part of the Army's battlefield digitization efforts. EPLRS is the Critical POS/NAV and data communications system in both digitized & non-digitized division & Corps until the FY04 time frame. EPLRS provides secure, jam -resistant, near real time communications support for the Battlefield Functional Areas of the Army and plays a critical role in support of the US Army's initiative to "Digitize the Battlefield" as the backbone communications data pipe at Brigade and Below for FBCB2 and the Tactical Internet. ADDS is essential to support tactical operations on the automated battlefield with reliable, real-time, secure, jam resistant data communications and position location capabilities. It has been designed specifically to meet the data communication requirements of emerging computer and sensor systems.

JUSTIFICATION:

EPLRS: The FY00 and FY01 budgets will allow the Army to procure 1280 (FY00) and 490 (FY01) additional Enhanced PLRS User Unit (EPUU) Radio Sets (RSs) and continue the fielding of prior year hardware procurements to contingency Corps units. The FY00 and FY01 budgets will also provide for New Equipment Training (NET), Installation Kits for Army prepositioned Stock 5 (APS-5), integration, ECOs, life cycle software engineering and program management support.

Exhibit P-5, Weapon		Appropriation/ Bu	dget Activity				m Nomenclature:			Weapon System	Type:	Date:	
OPA Cost Analysis		Communications				ARMY DA	TA DISTRIBUTIC 1400)	IN SYSTEM (BU				Feb	uary 1999
OPA	ID	Communications	FY 98	since Equipment		FY 99	1400)		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
OUST Elements	-	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Enhanced Position Location Reporting System (EPLRS) Hardware EPUU RS (1) Hardware NCS-E(D) Hardware, EPUU RT (2) Other Hardware Engineering Support Contractor System Engineering Government In-House Engineering Change Orders (ECOs) Integration/Installation/Retrofit Training Life Cycle Software Engineering Tooling, Test Equipment / NR Testing Contractor Project Management Project Management Administration Data Total Package Fielding		\$000 30771 496 8113 2178 3161 4733 669 1275 4511 3644 1596 394 3369	1774 1	\$000 17 496	\$000 21866 285 2734 2161 1177 7322 1444 2529 584 1475 1550 3792	390	\$000 56	•	1280	9	\$000 1926 11380 2862 3438 4940 568 2949 1500 1678 2964 4105	5 490	\$000
TOTAL (1) EPUU RS (Radio Set) consists of the Enhanced PLRS User Unit (RT), User Readout Device, Installation Kits, and Power Adapter. (2) Hardware EPUU RT cost in FY 99 includes material cost for the FY 00 quantity of 1280.		64910			46919			38763			38310		

	Exhibit P-5a, Budget Procureme	nt History a	and Planning					Date:	February	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Equipment	l Electronics	Weapon Syst	tem Type:		P-1 Line Iten	Nomenclatur ARMY DAT	e: A DISTRIBUTION S	YSTEM (E	BU1400)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First		Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Enhanced Position Location and										
Reporting System (EPLRS)										
Hardware EPUU RT	Hughes Aircraft Co.	SS/FFP	CECOM							
FY 97	Forest, MS			Sep-97	Jan-99	1100	37	Yes		Mar-97
FY 98				Sep-97	Jan-99	957	12	Yes		Mar-97
FY 98				Dec-97	Nov-00	817	19	Yes		Mar-97
Hardware EPUU RT	Raytheon Systems Corp	CC/EED	CECOM							
FY 99	Forest, MS	33/FFF	CECOIVI	May 00	Sep-00	390	56	Yes		
FY 00	Forest, MS			lon 00	May 01	1280				
FY 01				Jan-00 Jan-01	May-01 May-02	490		Yes Yes		
FYOI				Jan-01	Way-02	490	23	res		
			.=							
Hardware NCS-E (D)	CECOM/ C2SID	MIPR	CECOM							
FY 98				Dec-97	Jan-99	1	496	No	NA	NA
FY 01				Dec-00	Jan-02	5	385	No	NA	NA
I										

REMARKS:

The EPUU Radio Set (RS) consists of the Enhanced PLRS User Unit (RT), User Readout Device, Installation Kits, and Power Adapter.

The FY 97-FY98 EPUU RS contract was one Multiyear Award in FY 97 for 2057 EPUUs.

Hughes Aircraft Co. is now Raytheon Systems Corp.

C2SID is CECOM's Command and Control Systems Integration Directorate.

							P-1	Item I	Nome														Date	e:							
FY 00 / 01 BUDGET PRO	DUC	CTION SC	HED	ULE						ARN				BUTIO	N SYS	STEM	(BU14	100)					L				Febru	uary 1	999		
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COST ELEMENTS	F R	FY	E R V	Each	TO 1 OCT	AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	N O C	JUL	A U G	S E P	O C T	z o >	D E C	J A N	F E B	M A R	A P R	M A Y	N U	7 D L	A U G	S E P	T E R
Hardware EPUU RT	1	97 & Pr	Α	4198	1816	2382	9	18	40	40	51	44	36	49	13				25			60	100	120	120	60	60	60	60	60	1357
	1	98	Α	817	0	817			Α																						817
Hardware EPUU RT	2	99	Α	390	0	390																				Α					390
	2	00	Α	1280	0	1280																									1280
	2	01	Α	490	0	490																									490
	2	02	Α	234	0	234																									234
	2	03	Α	271	0	271																									271
	2	04	Α	477	0	477																		T	1						477
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Hardware EPUU RT	1	97 & Pr	AFR	80	0	80																			l	20	20	20	20		
	1	98	AFR	48	0	48			Α																						48
	1	97 & Pr	ANG	255	0	255																		T		40	40	40	40	60	35
	1	98	ANG	375	0	375			Α															T							375
	1	98	M	764	0	764			Α														1		l						764
	1	98	N	31	0	31			Α														1								31
Hardware NCS -E(D)	3	97 & Pr	A	19	19	- 01																	1								- 31
Tiaidwale 1400 -L(D)	3	98	A	1	0	1			Α													1	+		1						
	3	01	A	5	0	5																<u>'</u>									5
	3	02	A	4	0	4																									
	3			-			-																+		1						4
Handrian OMD (Con manager)		03	A	12	0	12	-																-	-	!						12
Hardware SMP (See remarks)	4	97 & Pr	Α	1816	1816																				-						
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							Т	V	С	Ν	В	R	R	Υ	Ν	L	G	Р	Т	V	С	Ν	В	R	R	Υ	Ν	L	G	Р	
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R NAME / LOCATION		MIN.	1	-8-5	MAX.	D+			INITIA	AL			FII	1	rol.	AII	4	Ul.	All	16	/UL	А	20	JUI.	(SN	lPs) w	hich w	ere pi	rocure	d are	module
1 Hughes Aircraft, Forest, Mississippi		20		120	300					RDER				1			5			14			19		kits	for the	1816	EPU			
Raytheon Systems Corp, Forest, Mississippi		20		185	300			2	INITIA					1			4			16			20		sep	arate	end ite	ms.			
3 CECOM C2SID (see Remarks) Fort Monmouth, N.J.		3					-	3	REOF	RDER				1			5 1			14 16			19 17								Control
4 Hughes Aircraft, Forest, Mississippi		75		180	200		1	J		RDER				1			5			16			17		Sys	tems I	ntegra	tion D	irecto	ate.	
								4	INITIA	٩L				1			8			19			27		Huç	hes is	now F	Raythe	eon.		
										RDER															•						
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FY 00 / 01 BUDGET PR	ODUC	CTION SC	HED	ULE						ARN				BUTIO	N SYS	STEM	(BU1	400)									Febru	uary 1	999		
				PROC	ACCEP.	BAL					Fis	cal `											Fis		Year	-					L
	M	5) (S	QTY	PRIOR	DUE	_	1			_		_	Cale	nda	r Yea			_		1 _				alen		rear	01			A
COST ELEMENTS	F R	FY	E R V	Each	TO 1 OCT	AS OF 1 OCT	O C T	N O V	D E C	J A N	F E B	M A R	A P R	M A Y	J U	J J	A U G	S E P	O C T	N O V	D E C	A N	F E B	M A R	A P R	M A Y	N D	JUL	A U G	S E P	T E R
Hardware EPUU RT	1	97 & Pr	Α	4198	2841	1357	60	100	120	120	120	120	120	110	120	110	110	110	37												
	1	98	Α	817	0	817														40	40	20	61	74	60	60	60	60	60	60	222
Hardware EPUU RT	2	99	Α	390	0	390												75	148	135	32										
	2	00	Α	1280	0	1280				Α															l	103	103	48	139	65	822
	2	01	Α	490	0	490																Α			1						490
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	2	03	Α	271	0	271																									271
	2	04	Α	477	0	477		H		\vdash													t		t				\vdash		477
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Hardware EPUU RT	1	97 & Pr	AFR	80	80																		1		1						
Tialdwale El OO Ki	1	98	AFR	48	0	48																	24	24	1						
	1	97 & Pr	ANG	255	220	35	35																1 -7		1						
	1	98	ANG	375	0	375	- 55													80	80	65	1		1						150
	 	98	M	764	0	764	-	\vdash		-										80	80	30	30	11	60	60	60	60	60	60	
	1			31		_																5	5	-	60	60	60	60	60	60	333
Handware NCC F(D)	1	98	N	-	0	31																5	5								14
Hardware NCS -E(D)	3	97 & Pr	Α	19	19																		1		.						
	3	98	Α	1	1																		1		1						
	3	01	A	5	0	5															Α		-		1						5
	3	02	Α	4	0	4																			1						4
	3	03	Α	12	0	12																									12
Hardware SMP (See remarks)	4	97 & Pr	Α	1816	1816																										
							0	0 2	D	J	F	M	A P	M) J	C L	Α	SE	0 C	N O	D	J A	F E	M	A P	M	J	J	A U	S	
							C T	V	E C	A N	E B	A R	R	A Y	N	L	U G	P	T	V	C	N	В	A R	R	A Y	U N	U L	G	E P	
М		PI	RODUCTI	ON RATES		1	M	IFR						ADN	ΛIN LE	AD T				MFR	_		TOTA			EMAR	KS				
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		Exhibit P-4	IO, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	-				
OTHER F	PROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				SINC	CGARS FAMILY (BW	/0006)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
			1			,	1	1	1	1	_	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	152275	31302	32847	5000								221424
Gross Cost	2396.3	311.3	276.5	57.1	13.2	3.0	0.0	0.0	0.0	13.8	0.0	3071.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	2396.3	311.3	276.5	57.1	13.2	3.0	0.0	0.0	0.0	13.8	0.0	3071.1
Initial Spares	1.6	1.3	1.5	1.4								5.8
Total Proc Cost	2397.9	312.6	278.0	58.4	13.2	3.0	0.0	0.0	0.0	13.8	0.0	3077.0

The Single Channel Ground and Airborne Radio System (SINCGARS) is the VHF-FM Radio Communications System providing the primary means of command and control for infantry, armor, artillery, and Army aviation units. It possesses capabilities and improvements over the 1960 technology radios it replaces in manpack, vehicular, and airborne configurations. Its Frequency-Hopping jam resistant capability will offset the current threat of jamming techniques used against the existing family of fixed frequency radios. SINCGARS continues its evolutionary development with the fielding of the SINCGARS System Improvement Program (SIP) radio. The SINCGARS SIP radio provides for enhanced data and voice communications while using commercial Internet Protocols within an Internet Controller. The SINCGARS SIP radio forms the linchpin of the Tactical Internet and is a major contributor to the Army digitization effort. The advanced system improvement program (ASIP) will result in a system that is half the size, half the weight, and double the power efficiency while providing the same functionality. It will assist commanders in conducting the battle on the digitized battlefield. SINCGARS is used in such systems as PATRIOT, M1A2 Tank Improvement Program, Paladin, and Longbow Apache.

JUSTIFICATION:

Funding in FY 00 and out will support completion of fielding of the program.

Exhibit	P-5a, Budget Procurement	History a	nd Planning					Date:	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon Syste			P-1 Line Item	Nomenclatur	e: CGARS - AIRBORNI	E (J30500)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date		QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years AIRBORNE HARDWARE		and Type			Delivery	Each	\$000	Now?	Avail	
FY 97	ITT, FT WAYNE, IND	SS/FFP/OP	CECOM	Apr-97	Jun-98	815	14512	Yes		
REMARKS: FY 98 program is for Airborne Retrofit ki	its.									

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AIRBORNE HARDWARE	1	97 & Pr	A	8577	7463	1114	28	-	38	45	37	36	38	29	69	62	62	62	62	62	67	67	74	78		79					
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Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	ROCUREN	IENT / 2 /			m Nomenclature: CGARS - GROUNI	O (B00500)		Weapon System	Type:	Date: Feb	ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCos
		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
HARDWARE ITT HARDWARE GD PRIOR YEAR REL FEE CONT LIABILITY CONTRACTOR ENGINEERING SUPPORT DATA ECPS GOVERNMENT ENGINEERING PROJECT MANAGEMENT ADMINISTRATION OTHER HARDWARE TEST FIELDING NEW EQUIPMENT TRAINING TPF	Α	154753 32784 12046 5999 3715 39983 5583 3227 9131	32847	4711	29454 4131 2588 14301 987 3375 2218	5000	5891	1200 1188 1732 4980 4105			1821 1213		
TOTAL		267221			57054			13205			3034		

Exhi	bit P-5a, Budget Procureme							Date:	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electroni Equipment	ics	Weapon Syst	em Type:		P-1 Line Item	n Nomenclatur SIN	re: ICGARS - GROUND	(B00500)	1	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First		Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$	Now?	Avail	
HARDWARE ITT							1	'	1	
FY 98	ITT, FT. WAYNE, IND	C/FP/OPT	CECOM	Apr-98	Dec-99	32847	4711	Yes		
FY 99	ITT, FT. WAYNE, IND	C/FP/OPT	CECOM	Mar-99	Nov-00	5000	5891	Yes		
REMARKS:										

							P-1	ltem l	Nome	enclat	ure:												Date	e:							
FY 00 / 01 BUDGET PRO	DUC	CTION SC	HED	ULE							S	INCGA	ARS -	GROU	JND (I	B0050	00)										Febru	uary 19	3 99		
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HARDWARE ARMY	1	97 & PR	Α	120629	81604	39025	1066	1066	1066	1066	1066	1068	1070	1070								1003	2300	2540	2540	2940	2940	2940	2940 2	2940	7404
	2	97 & PR	Α	54371	45611	8760	876	876	876	876	876	876	876	876	876	876															
	1	98	Α	32847		32847							Α																	П	32847
	1	99	Α	5000		5000																		Α						T	5000
HARDWARE NAVY	1	97 & PR	N	1770	1622	148	3	3	3	3	4	4	4	4																╗	120
	2	97 & PR	N	374	304	70	6	6	6	6	6	6	6	6	6	6	5	5												╗	
	1	98	N	12		12																					П		\neg	┪	12
HARDWARE MARINE CORPS	1	97 & PR	MC	29191	22645	6546	300	300	300	300	300	300	300	300				Т	Г			100	200	460	460	460	460	460	460	460	626
	1	98	MC	155		155							Α														П			┪	155
HARDWARE AIR FORCE	1	97 & PR	AF	1985	1985			\vdash	Н			Н						\vdash					\vdash	\vdash	一		\vdash		\dashv	┪	
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HARDWARE NATIONAL GUARD	1	97 & PR	NG	8150	8150			\vdash															\vdash	╁			Н		\dashv	┪	
HARDWARE RESERVES	1	97 & PR	RC	3000	3000			\vdash				Н				_							\vdash	╁			Н		\dashv	┪	
HARDWARE OTHER	1	97 & PR	OTH	300	20	280	5	4	4	4	4	4	4	4		_						247	\vdash	╁			Н		\dashv	┪	
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HARDWARE MARINE CORPS	1	97 & PR	MC	29191	28565	626	460	166		Н							П						T	\top	T	十	\top	十	十	\top	
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HARDWARE AIR FORCE	1	97 & PR	AF	1985	1985			М		Н				\vdash			\vdash						+	+	┰	+	\top	十	+	十	1
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HARDWARE NATIONAL GUARD	1	97 & PR	NG	8150	8150					Н			Н				Н					┢	+	╁	╈	十	\top	_	+	+	+
HARDWARE RESERVES	1	97 & PR	RC	3000	3000				H	Н		H												+	╁	十	+	_		十	
HARDWARE OTHER	1	97 & PR	OTH	300	300			Н		Н			Н				Н						+	+	╁	十	+	_	+	十	+
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		Exhibit P-4	l0, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	=				
OTHER P	PROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				JOINT TACTICAL	AREA COMMAND S	SYSTEMS (BA1010)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
				А			BB	1600				
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												I
Gross Cost	510.0	43.3	10.3	9.9	1.0	1.0	1.0	0.9	0.9	0.9		579.2
Less PY Adv Proc												<u> </u>
Plus CY Adv Proc												<u> </u>
Net Proc (P-1)	510.0	43.3	10.3	9.9	1.0	1.0	1.0	0.9	0.9	0.9		579.2
Initial Spares												<u> </u>
Total Proc Cost	510.0	43.3	10.3	9.9	1.0	1.0	1.0	0.9	0.9	0.9		579.2
Flyaway U/C		•										
Wpn Sys Proc U/C												<u></u> I

FY98/99 funds 2 separate components in accordance with transfer of PM JTACS equipments to US Army Communications Electronics Command (CECOM), as follows: (1) Funding for Project Manager, Warfighter Information Network-Terrestrial (PM WIN-T) to support personnel/equipments negotiated to remain with the new PM; the WIN is a total information system architecture that supports requirements of the Digitized Force XXI. WIN is the architecture that will seamlessly link our diverse information resources into a network Army warfighters can use on the 21st century's digitized battlefield and (2) Funding for CECOM Special Project Office, JTACS Systems Branch, and completion of Level II projects. Effective FY 00, allotment belongs to CECOM only. This line supports the Legacy Systems of the Area Common User System-Modernization Plan (ACUS-MP) which is comprised of the Communication Networks, which evolved from the original Tri Service Tactical Communications and Mobile Subscriber Equipment.

JUSTIFICATION:

CECOM/JTACS Systems Branch Allocation-FY 00/01 funds are required to provide Level II Project Management of equipments transferred from PM JTACS/WIN-T to CECOM.

Exhibit P-5, Weapon		Appropriation/ Bu	-				m Nomenclature:			Weapon System	Type:	Date:	
OPA Cost Analysis			PROCUREN	IENT / 2 / onics Equipment		JOINT	TACTICAL AREA					Feb	ruary 1999
		Communications		onics Equipment		E)/ 00	SYSTEMS (BA1	1010)	E)/ 00		T	EV 04	
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCos
DAM WANT All 1		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
PM WIN-T Allotment:													
1. PROJ MANAGEMENT ADMIN		4114			3937								
2. ENGINEERING SUPPORT													
GOVERNMENT/CONTRACTOR		3648			4842								
SUBTOTAL		7762			8779								
		1102			0/19								
CECOM JTACS Systems Branch:													
7. QEAM		838			222								
8. AN/TYQ-69		466											
9. AN/GRC-226		330											
10. Project Admin Support		840			897			980			979		
10. Project Admin Support 11. AN/GRC-222		56											
SUBTOTAL		2530			1119			980			979		
TOTAL		40000			0000			000			070		
IOTAL		10292			9898			980			979		
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Exhibit	P-5a, Budget Procurement							Date:	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon Syst	tem Type:			m Nomenclatur OINT TACTICA	re: AL AREA COMMANI	D SYSTE	VIS (BA10	-
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	t QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
QUICK ERECT ANTENNA MAST (QEAM) CECOM 1998 1999	TRI EX, VISALIA CA TRI EX, VISALIA CA		CECOM	Feb-98 Feb-99	Aug-98 May-99	N/A N/A		YES		
REMARKS:										

								Date:				
		Exhibit P-4	10, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	<u></u>				
OTHER F	PROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t				ACUS MOD	PROGRAM (WIN T	T/T) (BB1600)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
				А			BB1600	, BA1010				
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	334.7	13.2	98.1	129.0	109.1	132.7	167.5	249.1	258.5	327.4		1819.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	334.7	13.2	98.1	129.0	109.1	132.7	167.5	249.1	258.5	327.4		1819.3
Initial Spares												
Total Proc Cost	334.7	13.2	98.1	129.0	109.1	132.7	167.5	249.1	258.5	327.4		1819.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The ACUS MOD PROGRAM (WIN-T) line funds the ongoing and planned modifications to the Area Common User System (ACUS) and supports its migration to the Army's Warfighter Information Network (WIN) systems architecture. The WIN is a total information system architecture that supports the requirements of the Digitized Force XXI. WIN is the architecture that will seamlessly link our diverse information resources into a network the Army warfighters can use on the 21st century's digitized battlefield. The components of the terrestrial portion of WIN are: (A) The Switch Modernization effort is the engineering effort to prove out the institutional upgrade of the legacy area common user system switches with Asynchronous Transfer Mode (ATM) and the procurement/fielding of this upgraded capability throughout the Army; (B) The Radio Modernization effort provides increased transmission pipes between switches to move voice, data, video, collaborative planning, etc. on the digitized battlefield. (C) The High Speed Multiplexer Card effort provides essential bandwidth necessary to support the Battlefield Video Teleconferencing capability and high speed data access through Mobile Subscriber Equipment. (D) The Battlefield Video Teleconferencing effort provides whiteboarding/collaborative planning interface, necessary for timely dissemination of information on the battlefield. Also included are spares and training devices to support the abovementioned upgrades. The objective is for a Force Package (FP), with a supporting slice to be fielded every 3 years after the First Digitized Division (FDD) in FY 00 and First Digitized Corps (FDC) in FY 04 and migrate towards the objective architecture. Objective improvements will include wireless voice and data communications to support mobile operations, new secure telephone equipment interoperable with that used in garrison, fiber optics to replace metallic cables and a transition to commercial voice switching technology for improved interoperability with commercial and joint information syst

Exhibit P-40C Budget It	tem Justific	cation Sheet		Date February 1999
Appropriation / Budget Activity/Serial No.			P-1 Item Nomenclature	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				ACUS MOD PROGRAM (WIN T/T) (BB1600)
Program Elements for Code B Items	Code	Other Related Progr	ram Elements	
	Α		BB1600, E	BA1010
JUSTIFICATION: FY 00/01 continues the Area Common User System-Mode ACUS is an area switched communications system that is (TRI-TAC) concept and the Echelons Corps and Below (EC system in FY 00/01 and will transition to the Warfighter Inf bandwidth-on-demand switching, improved wide band radi communication interoperability, reliability and capacity.	comprised CB) Mobile formation No	of the EAC C Subscriber E etwork (WIN)	comm Network, which evolution of the Arich to capitalize on advances	ved from the original Tri-Service Tactical Communications my will continue to modernize the area common user

	Exhibit I	P-40M Budget It	em Justific	ation Sheet			Date		February 1999		
Appropriation / Budget Acti	ivity/Serial No.				P-1 Item Nomenclatu	re					
отн	ER PROCUREMENT / 2 / Communications a	and Electronics Equipment					ACUS MOD	PROGRAM (WIN T/	T) (BB1600)		
Program Elements for Cod	de B Items		Code	Other Related Progra	am Elements						
			Α	BB1600, BA1010							
Description		Fiscal Years									
OSIP NO.	Classification	Prior Years	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
ACUS Area Cor	mmon User Modernization I	Plan									
	Operational	442.3	129.0	109.1	132.7	167.5	249.1	258.5	327.4		1,815.6
Totals		442.3	129.0	109.1	132.7	167.5	249.1	258.5	327.4		1,815.6

INDIVIDUAL MODIFICATION Date February 1999 ACUS Area Common User Modernization Plan MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED: Network Management and Control, Circuit Switching, Data Switching, Terminals and Transmission Systems DESCRIPTION / JUSTIFICATION: The ACUS is an area switched communication system that is comprised of the Echelons Above Corps (EAC) Communications Network and the Echelons Corps and Below (ECB) Mobile Subscriber Equipment (MSE) System. Ongoing and planned modifications to the ACUS will support its migration to the Army's Warfighter Information (WIN) systems architecture. The WIN is a total information system architecture that supports the requirements of the Digitized Force XXI. WIN is the architecture that will seamlessly link the diverse information resources into a network the Army warfighters can use on the 21st century's digitized battlefield. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Installation Schedule: Pr Yr FY 1999 FY 2000 FY 2001 FY 2003 FY 2002 3 3 Totals 4 Inputs Outputs FY 2004 FY 2005 FY 2006 FY 2007 Totals Complete Inputs Outputs 2 59 METHOD OF IMPLEMENTATION: PRODUCTION LEADTIME: ADMINISTRATIVE LEADTIME: 24 Months 24 Months Contract Dates: Jun 98 FY 1999 **Enter Date** FY 2000 **Enter Date** FY 2001 **Enter Date** Delivery Date: Jun 00 FY 1999 **Enter Date** FY 2000 **Enter Date** FY 2001 **Enter Date**

INDIVIDUAL MODIFICATION Date February 1999 ACUS Area Common User Modernization Plan MODIFICATION TITLE (Cont): FINANCIAL PLAN: (\$ in Millions) FY 1998 FY 2001 FY 2002 FY 2005 and Prior FY 1999 FY 2000 FY 2003 FY 2004 TOTAL Qty Qty Qty Qty Qty Qty Qty \$ \$ \$ Qty \$ Qty Qty \$ \$ RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment 383.0 71.9 70.5 87.7 104.5 163.1 167.1 230.9 1278.7 Equipment, Nonrecurring 44.7 28.0 9.9 6.7 2.9 1.6 1.3 4.6 99.7 **Engineering Change Orders** 0.6 0.7 0.3 1.6 2.2 3.4 3.3 4.6 16.7 Data 0.3 0.3 **Training Equipment** 0.9 5.8 3.9 6.2 7.4 8.3 17.0 49.5 Support Equipment 14.3 22.8 23.2 23.6 24.1 24.6 25.1 169.1 Engineering Spt-Govt/Contr 11.4 0.6 2.6 25.3 25.1 34.6 109.0 Other-Spares 0.2 6.2 14.4 Installation of Hardware 2.1 4.7 12.5 23.3 20.1 27.6 92.6 1.2 1.1 FY 1998 & Prior Eqpt -- Kits FY 1999 Eqpt -- Kits FY 2000 Eqpt -- Kits FY 2001 Eqpt -- Kits FY 2002 Eqpt -- kits FY 2003 Eqpt -- kits FY 2004 Eqpt -- kits FY 2005 Eqpt -- kits TC Equip-Kits Total Installment 442.3 129.0 109.1 132.7 167.5 249.1 258.5 327.4 1815.6 **Total Procurement Cost**

								Date:				
		Exhibit P-4	0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	8				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				COMMS-E	LEC EQUIP FIELDIN	NG (BA5210)		
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
	1		T			T	1	1	1	1	1	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	3.7	2.2	4.2	4.9	6.0	6.8	7.4	8.1	0.0	43.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	3.7	2.2	4.2	4.9	6.0	6.8	7.4	8.1	0.0	43.3
Initial Spares												
Total Proc Cost	0.0	0.0	3.7	2.2	4.2	4.9	6.0	6.8	7.4	8.1	0.0	43.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This funds the fielding costs associated with a variety of Communications-Electronics (C-E) systems and efforts not identifiable to a current major system hardware line. Fielding costs include Total Package Fielding (TPF), New Equipment Training (NET) and First Destination Transportation (FDT). TPF efforts include validation of the Material Requirements List (MRL), depot staging costs, deprocessing, inventory, installation and handoff of all required equipment and material to gaining units. The funding shown for NET is to train the instructor and key personnel who then train the users in the field in operating and maintenance of CECOM managed equipment. FDT costs are those associated with the shipping of various of C-E equipment from the contractor to the depot.

JUSTIFICATION: The primary efforts to be funded in FY-00/01 are TPF/NET for C-E Equipment requirments for the conversion of selected units. These funds will activate multiple Brigades with MSE and TRI-TAC capabilities. These conversions are restructured to accommodate a a downsized force structure. The primary efforts in FY-00 is the conversion of MSE shelters from Digital Group Multiplexers (DGM) to the newer Transmission Interface Module(TIM) System MSE. These funds will ensure that critical round out signal units are equipped for the Mobile Digitized Battlefield with Go-To-War system.

Exhibit P-5, Weapon OPA Cost Analysis			ROCUREN				em Nomenclature ELEC EQUIP FIE			Weapon System	Type:	Date: Feb	ruary 1999
OPA	ID	Communications	FY 98	onics Equipment		FY 99			FY 00		I	FY 01	
		TotalCost		UnitCost	TotalCost		UnitCost	TotalCost		UnitCost	TotalCost		UnitCost
Oost Elements													
Cost Elements FY 98: CONTRACTUAL-GTE DEPOT/INSTALL-PROCESSING COSTS/SPT SPT COSTS FY99: FIELDING SUPPORT PM SUPPORT COSTS DEPOT/INSTALL-PROCESSING COST/SPT FY00: FIELDING SUPPORT PM SUPPORT COSTS DEPOT/INSTALL-PROCESSING COST/SPT FO01: FIELDING SUPPORT PMSUPPORT COSTS DEPOT/INSTALL-PROCESSING COST/SPT FO01: FIELDING SUPPORT PMSUPPORT COSTS DEPOT/INSTALL-PROCESSING COST/SPT	CD	TotalCost \$000 1100 2119 446	Qty Each	UnitCost \$000	928 400 832	Qty Each	UnitCost \$OOO	TotalCost \$OOO 2468 500 1183	Qty Each	UnitCost \$OOO	TotalCost \$OOO 2500 550 1822	Qty Each	UnitCost \$OOO
TOTAL		3665			2160			4151			4872		

								Date:				
		Exhibit P-4	0, Budget	ltem Justific	ation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:					
OTHER P	PROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t			so	LDIER ENHANCEMI	ENT PROGRAM CO	MM/ELECTRO (BA	5300)	
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
			1				1		1			
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												1
Gross Cost	0.0	0.0	1.0	4.6	3.4	4.5	5.3	6.3	8.5	8.5	0.0	42.1
Less PY Adv Proc												
Plus CY Adv Proc												<u> </u>
Net Proc (P-1)	0.0	0.0	1.0	4.6	3.4	4.5	5.3	6.3	8.5	8.5	0.0	42.1
Initial Spares												<u> </u>
Total Proc Cost	0.0	0.0	1.0	4.6	3.4	4.5	5.3	6.3	8.5	8.5	0.0	42.1
Flyaway U/C												
Wpn Sys Proc U/C												<u></u>

DESCRIPTION: The Soldier Enhancement Program procures soldier items that will ensure that our combat soldiers maintain and improve their lethality, survivability, mobility, command and control, and sustainment. The Soldier Intercom (SI) is currently being procured under this program.. The SI is a small voice radio with a tethered speaker/microphone for use by individuals within a squad to coordinate their movement. SI will allow squad members to communicate more effectively while conducting day/night combat operations over distances without relying on hand and arm signals, particularly in Military Operations in Urban Terrain (MOUT). The SI is an inexpensive means of coordinating squad communication and facilitates dissemination of information from the squad leader. The SI consists of a receiver/transmitter, antenna, speaker/microphone, and carrying case for the load bearing equipment. The SI is the US Army Infantry Center #1 materiel solution priority.

JUSTIFICATION: Command and control through radios currently ends at the squad leader level. The SI will extend the ability of the squad leader to disseminate voice information to the members of the squad by using a small rugged, non-developmental radio. The FY00-01 funds will complete fielding of Force Packages II and III (i.e., non Land Warrior, Mounted Warrior, and Air Warrior).

								Date:				
		Exhibit P-4	0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/Se	erial No:					P-1 Item Nomencla	ure:	=				
OTHER PR	ROCUREMENT / 2 / Cor	mmunications and Ele	ectronics Equipmen	ıt				COMBAT SURVIVO	R EVADER LOCAT	OR (CSEL) (B03200	0)	
Program Elements for Code B Ite	ems:			Code:	Other Related Prog	ram Elements:						
						1	1	1	1	1		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	1.1	13.7	0.0	0.0	13.3	24.1	20.1	6.9	0.0	79.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	1.1	13.7	0.0	0.0	13.3	24.1	20.1	6.9	0.0	79.1
Initial Spares												
Total Proc Cost	0.0	0.0	1.1	13.7	0.0	0.0	13.3	24.1	20.1	6.9	0.0	79.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The USAF Combat Survivor Evader Locator (CSEL) communication system handheld radio includes secure digital message communications, Global Positioning System (GPS), line of sight (LOS) voice, and radio satellite and ground equipment interfaces to work with existing search and rescue systems for downed aircraft personnel. CSEL decreases the enemy's ability to detect or decipher rescue communications through the use of satellite communications. GPS allows pinpoint location of the U.S. survivor evader. Based on replacing the AN/PRC-112, there is a requirement for 18,531 CSELS, including Special Forces.

JUSTIFICATION:

The FY 00 and FY 01 procurement has been eliminated to permit further development of the radio.

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREM				m Nomenclature: SURVIVOR EVAI (CSEL) (B0320	DER LOCATOR		Weapon System	Туре:	Date: Feb	ruary 1999
OPA	ID		FY 98			FY 99	, , , , , , , , , , , ,		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCos
OOST Elements		\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
	А	ψοσο	Luon	Ψ	φοσο	Lucii	Ψ	ΨΟΟΟ	Luon	Ψ	ΨΟΟΟ	Lucii	Ψ
Hardware					11938	948	12593						
Non-recurring Production													
System Project Management		477			811								
Sovernment Engineering		582			590								
Engineering Changes					336								
TOTAL		4050			40075								
OTAL		1059			13675								
										I		I	

	Exhibit P-5a, Budget Procurement	nt History a	and Planning					Date:	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications Equipment		Weapon Syst				n Nomenclatur	re: IVOR EVADER LOCA			
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First		Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$	Now?	Avail	 '
Hardware FY 99	Boeing N. Amer, Los Angeles	SS/Opt	USAF	May-99	Oct-00	948	12593	8 No		
REMARKS:										

EV 00 / 04 BUDGET BE		TION C					P-1	Item I				//\ /O-	5) (6)	n=n :	004		2051	(D.0.5.)	200)				Date	э:							
FY 00 / 01 BUDGET PF	RODUC	TION S	CHED						COI	MBAT				DER L	LOCAT	FOR (C	CSEL)	(B032	200)				Ц_		.,_		Febru	ary 19	999		
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Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:					
OTHER P	PROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t			N	MEDICAL COMM FO	R CBT CASUALTY	CARE (MC4) (MA80	46)	
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												<u> </u>
Gross Cost	0.0	0.0	0.0	9.4	20.6	15.0	9.3	11.8	14.5	17.9	0.0	98.5
Less PY Adv Proc												<u> </u>
Plus CY Adv Proc												<u> </u>
Net Proc (P-1)	0.0	0.0	0.0	9.4	20.6	15.0	9.3	11.8	14.5	17.9	0.0	98.5
Initial Spares												<u> </u>
Total Proc Cost	0.0	0.0	0.0	9.4	20.6	15.0	9.3	11.8	14.5	17.9	0.0	98.5
Flyaway U/C												<u> </u>
Wpn Sys Proc U/C												

DESCRIPTION: Medical Communication for Combat Casualty Care (MC4) is a capstone program which provides support to the medical force structure through the acquisition of existing and emerging digital communications equipment and information management/technology capabilities for modular hospital platforms and non-hospital units throughout the wartime theater of operations as well as peace operations, humanitarian assistance and operations in aid of civil authorities. MC4 will also integrate the Medical Information Systems into the Army Command and Control (C2) structure which is evolving to support Force XXI and the Army After Next (AAN).

JUSTIFICATION: MC4 inserts available and emerging technologies into existing platforms and provides enhanced tactical communications capabilities to enhance combat medical treatment. MC4 will also procure, field and integrate automation infrastructure for Army users of the Joint Theater Medical Information Program (TMIP), which is to commence in FY99. FY00/01 funding supports procurement and fielding of information management/information technology and communications equipment to enhance far forward combat casualty care.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F	dget Activity PROCUREM				m Nomenclature: L COMM FOR CE	BT CASUALTY		Weapon System	Туре:	Date: Feb	ruary 1999
<u> </u>		Communications		onics Equipment			CARE (MC4) (MA	8046)					
OPA	ID		FY 98	,		FY 99			FY 00	,		FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Digitized Combat Support Hospital Hardware consisting of: Pentium-based desktop workstations and Pentium-based laptops Wireless LAN and equipment Hand-held radios Routers and servers Engineer, Furnish, Install & Test	A				3840	*VAR	VAR	9600	*VAR	VAR	6905	*VAR	VAF
Division/Corps Support Slice Hardware consisting of: Pentium-based desktop workstations and Pentium-based laptops Wireless LAN and equipment Hand-held radios Routers and servers Engineer, Furnish, Install & Test	A				2174	*VAR	VAR	5300	*VAR	VAR	3200	*VAR	VAF
Theater Army Medical Management Info Sys (TAMMIS) Upgrade	Α				1400	VAR	VAR						
CTASC II (Y2K) Upgrade	Α				1500	VAR	VAR						
Personal Information Carrier (PIC)	Α				500	VAR	VAR	5700	VAR	VAR	4900	VAR	VAF
TOTAL					9414			20600			15005		
* Configurations vary by unit/location													

Exh	ibit P-5a, Budget Procureme							Date:	Date Revsn Avail	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electror Equipment	nics	Weapon Syst	tem Type:			Nomenclature	e: OR CBT CASUALT	Y CARE (MC4) (MA	.8046)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail		RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Digitized Combat Support Hospital										
FY 99	TBS	C/FP	CAC-W	Apr-99	Jul-99	VAR	VAR	YES		
				Jun-99	Sep-99	VAR	VAR			
FY 00	TBS	C/FP	CAC-W	Mar-00	Jun-00	VAR	VAR	YES		
FY 01	TBS	C/FP	CAC-W	Mar-01	Jun-01	VAR	VAR			
		٥,	0.10 11	iviai o i	July 01	****		0		
Division/Corps Support Slice										
FY 99	TBS	C/FP	CAC-W	Apr-99	Jul-99	VAR	VAR	YES		
1 1 99	163	C/FF	CAC-W	Jun-99		VAR	VAR	YES		
E)/ 00	TD 0	0/50	0.0014		Sep-99					
FY 00	TBS	C/FP	CAC-W	Mar-00	Jun-00	VAR	VAR	-		
FY 01	TBS	C/FP	CAC-W	Mar-01	Jun-01	VAR	VAR	YES		
Theater Army Medical Management Info Sys										
(TAMMIS) Upgrade										
FY 99	FIELDWORKS	C/FP	CAC-W	Apr-99	Jul-99	VAR	VAR	YES		
CTASC II (Y2K) Upgrade										
FY 99	FIELDWORKS	C/FP	CAC-W	Apr-99	Jul-99	VAR	VAR	YES		
				'						
Personal Information Carrier (PIC)										
FY 99	TBS	C/FP	USAMRAA	Jul-99	Oct-99	VAR	VAR	YES		
FY 00	TBS	C/FP	USAMRAA	Mar-00	Jun-00	VAR	VAR			
FY 01	TBS	C/FP	USAMRAA							
ΓΙ UI 	IDO	C/FP	USAIVIKAA	Mar-01	Jun-01	VAR	VAR	150		
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REMARKS:

FIELDWORKS, Eden Prarie, MN

CAC-W - CECOM Acquisition Center - Washington USAMRAA - US Army Medical Research Acquisition Activity, Ft Detrick, MD

								Date:				
		Exhibit P-4	0, Budget	ltem Justifi	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	=				
OTHER P	PROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t			LIGHT	WEIGHT LASER DE	SIGNATOR / RANG	SEFINDER (LLDR) (K31100)	
Program Elements for Code B Is	tems:			Code:	Other Related Progr	ram Elements:						
0	604710A DL70			В								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					14	33	40	43	58	77	Continuing	Continuing
Gross Cost	0.0	0.0	0.0	0.0	6.3	7.1	7.1	7.3	9.9	15.4	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	6.3	7.1	7.1	7.3	9.9	15.4	Continuing	Continuing
Initial Spares												1
Total Proc Cost	0.0	0.0	0.0	0.0	6.3	7.1	7.1	7.3	9.9	15.4	Continuing	Continuing
Flyaway U/C					0.310	0.183	0.151	0.144	0.146	0.170		
Wpn Sys Proc U/C					0.447	0.223	0.174	0.169	0.171	0.200		

DESCRIPTION: K31100, AN/PED-1, Lightweight Laser Designator Rangefinder (LLDR) is a modular system designed for day/night all weather target acquisition, precise location, and designation for engagement by a variety of munitions. The target location module contains an advanced Forward Looking Infrared (FLIR) thermal sensor, day camera, laser rangefinder, digital compass/vertical angle measurement device, Global Positioning System, and system controller with digital data and video outputs. The laser designation module contains the laser and associated optics required for precision engagement by laser-guided artillery and aircraft-launched munitions. Weighing just 35 pounds with tripod and battery, the man-portable LLDR gives the light forces an impressive new fire support capability with 24-hour target identification, digital data export of precise target location for engagement by indirect fires, or laser designation for destruction by laser-guided munitions. LLDR will also be mounted on the STRIKER vehicle to provide this same target location and engagement capability for mounted artillery fire support teams.

JUSTIFICATION: LLDR meets an urgent requirement for precision target location and engagement for the artillery fire support teams, and has received Warfighter Rapid Acquisition Program (WRAP) funding in FY 1997 and FY 1998 to achieve an initial operational capability and to be integrated into the STRIKER system. LLDR is a Priority 2 system for the First Digitized Division, and will give fire support teams the capability to send timely and accurate target location digital data with the push of a button. LLDR will also serve as the sensor and digital data source for Marine Corps fire support teams, with Marine Corps providing funding for a joint production program starting in FY 2001. The Army FY 2000 funds will procure this critical capability for fielding to the 82nd Airborne Division.

Exhibit P-5, Weapon		Appropriation/ Bu	-				em Nomenclature:			Weapon System	Type:	Date:	
OPA Cost Analysis			PROCUREN	MENT / 2 / onics Equipment			VEIGHT LASER D					Febi	ruary 1999
<u> </u>		Communications		onics Equipment	1		GEFINDER (LLDI	R) (K31100)	E)/ 00			EV 04	
OPA	ID		FY 98	1		FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
K31100 AN/PED-1 LLDR	В							3060	14	219	5797	32	18
Government Engineering Support Project Management Admin Fielding								317 223			309 206 228		
Interim Contractor Support ECO								200 178			269 95		
Data/Technical Pubs Testing Facilitization								74 195 2015			39 202		
TOTAL								6262			7145		

E:	xhibit P-5a, Budget Procuremen							Date:	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Ele	ctronics	Weapon Syst	tem Type:			i Nomenclatur IGHT LASER I	e: DESIGNATOR / RA	NGEFIND	ER (LLDR) (K31100)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First		Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
K31100 AN/PED-1 LLDR										
FY 00	Litton Laser, Apopka, FL		CECOM	Mar-00		14				
FY 01	Litton Laser, Apopka, FL	SS/FP	CECOM	Jan-01	Oct-01	32	181			
REMARKS:										

							P-1	Item I	Nome	enclat	ure:												Dat	e:					_		
FY 00 / FY 01 BUDGE	T PRODU	JCTION S	SCHE	DULE				LIGH	HTWE	IGHT I	LASEF	R DES	SIGNA	TOR /	RAN	GEFIN	IDER ((LLDR	R) (K31	1100)							Febr	uary 1	999		
				PROC	ACCEP.	BAL					Fis	cal `											Fi		Yea						L
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COST ELEMENTS			V				Т	V	С	Ν	В	R	R	Υ	N	L	G	Р	Т	V	С	N	В	R		Υ	N	L	G	Р	R
31100 AN/PED-1 LLDR																															
	1	FY 00	Α	14	0	14						Α													1	2	2	3	3	3	
	1	FY 01	Α	32	0	32																Α									32
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31100 AN/PED-1 LLDR																									1	T	\top	1			
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		Exhibit P-4	IO, Budget I	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	-				
OTHER P	ROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				TSEC - ARM	Y KEY MGT SYS (AF	(MS) (BA1201)		
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
0303140A Communica	tions Security (COMSEC)) Equipment		A		Z16800 B	attlefield Electronics (Communications Syst	tem (BECS)			
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	15.0	0.0	4.5	10.3	11.0	12.1	12.3	13.2	3.8	4.0		86.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	15.0	0.0	4.5	10.3	11.0	12.1	12.3	13.2	3.8	4.0		86.2
Initial Spares												
Total Proc Cost	15.0	0.0	4.5	10.3	11.0	12.1	12.3	13.2	3.8	4.0		86.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

Army Key Management System (AKMS) is the Army's system to automate the functions of Communications Security (COMSEC) key management control and distribution, Electronic Counter-Countermeasures (ECCM) generation and distribution and Signal Operation Instructions (SOI) management. AKMS will electronically generate and distribute Army key and key-related material, thereby limiting adversarial access to, and reducing the vulnerability of, Army C4I systems. AKMS capabilities will also increase operational flexibility and reduce force response time. It provides communications and network planning with key management. Direction was provided in FY 98 to separate the Local COMSEC Management Software (LCMS) from the Automated Communications Engineering System (ACES). LCMS is the COMSEC accounting and generation software and ACES is the network planning software. This action will insure interoperability with the other services, improve the user acceptance of the system and allow the Project Manager to more efficiently maintain configuration management for existing and future Army systems. AKMS is part of the management/support infrastructure for the Warfighter Information Network - Terrestrial (WIN-T) program, which provides critical functions for the Army's digital systems and Force XXI digitization effort.

JUSTIFICATION:

FY 00/01 funds will procure upgraded AKMS Workstations, Data Transfer Devices (DTDs), initiate fieldings of the new workstation and provide for the associated government and contractor engineering support, training and fielding. The DTD will be fielded with the SINCGARS radio and to other non SINCGARS users..

Exhibit P-5, Weapon		Appropriation/ Bu	dget Activity				m Nomenclature: ARMY KEY MGT			Weapon System	Type:	Date:	uary 1999
OPA Cost Analysis				onics Equipment		ISEC -	(BA1201)	515 (ANIVIS)				rebi	uary 1999
OPA	ID	Communications	FY 98	omeo Equipment		FY 99	(BA1201)		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Cost Liements	OD	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		ΨΟΟΟ	Luon	ΨΟΟΟ	ΨΟΟΟ	Laon	ΨΟΟΟ	ΨΟΟΟ	Lacii	ΨΟΟΟ	ΨΟΟΟ	Luon	ΨΟΟΟ
Data Transfer Device								2270	2270	1	7714	7714	
2. Gov't Engineering		762			821			843			843		
3. Contractor		933			667			616			491		
4. Fielding/Net Legacy Systems					1947			4290			2408		
5. Upgrade Workstation					3407	606	6		448	6		120	6
6. Software upgrade		2122			1975								
7. Test					500			499					
8. Data		725			998								
o. 2 a.a													
TOTAL		4542			10315			11038			12131		

Exhibit	P-5a, Budget Procurement I	History a	and Planning					Date:	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon Syste	ет Туре:		P-1 Line Item	Nomenclatur TSEC - ARI	e: MY KEY MGT SYS	(AKMS) (E	3A1201)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Data Transfer Device										
FY 2000	TBD	C/FP	NSA	Mar-00	TBD	2270	1	YES		
FY 2001	TBD	FP/OPT		Feb-01	TBD	7714				
2. Workstation										
FY 1999	TBD	C/FP	СЕСОМ	Mar-99	TBD	606	6	YES		
FY 2000	TBD		CECOM	Feb-00	TBD	448				1
FY 2001	TBD		CECOM	Feb-00	TBD	120				
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REMARKS:							'			

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		Exhibit P-4	0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:	=				
OTHER P	ROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t			IN	IFORMATION SYST	EM SECURITY PRO	GRAM - ISSP (TA06	600)	
Program Elements for Code B Is	tems:			Code:	Other Related Prog	ram Elements:						
						_	1					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	81.5	19.8	21.4	33.6	28.8	29.8	26.0	25.3	19.5	21.6	0.0	307.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	81.5	19.8	21.4	33.6	28.8	29.8	26.0	25.3	19.5	21.6	0.0	307.3
Initial Spares												
Total Proc Cost	81.5	19.8	21.4	33.6	28.8	29.8	26.0	25.3	19.5	21.6	0.0	307.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Funds the Army's Information Systems Security (INFOSEC) Program (ISSP). Provides communication security, cryptosecurity, transmission security, emission security, and computer security equipment and products as a means for protecting telecommunications and information systems which process classified, mission sensitive, national security, and related sensitive information. Prevents exploitation through intercept, unauthorized electronic access, or related technical intelligence threats. Ensures authenticity, integrity, protection and availability of information transmitted by information systems.

JUSTIFICATION: FY 00-01 funds buy:

Network Security, KG-175, and High Assurance Guards to secure Army's portion of the Defense Information Infrastructure. Tactical-Secure Terminal Equipment (T-STE) to provide INFOSEC transparent to the soldier and solutions for TOP SECRET/Special Intelligence subscribers to echelons above and below corps communication systems to resolve problems of secure interface of strategic, tactical, and commercial communication systems as identified by the Joint Staff (J6) in the Multiservice Communications Electronics Board (MCEB) in August 1993/March 1996. MINTERM KY-99A to protect tactical communications for ground high frequency radios. KIV-7HS to secure systems used for intelligence gathering and video teleconferencing. KG-194 to secure information and communication trunks. Army Key Management System, Primary Tier 1 System for managing Army's automated Electronic Key, Communication Security (COMSEC) and INFOSEC material. Secure digitized systems to support Army initiative to Digitize First Division by FY00 and First Corps by FY04. New equipment training, first destination transportation, and consummable parts for total package fieldings.

IDENTIFICATION CODE: A

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	ROCUREN	IENT/2/		INFOR	m Nomenclature: MATION SYSTEM ROGRAM - ISSP(Weapon System	Туре:	Date: Feb	ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
FIREWALL	Α	1701	50	34									
NETWORK SECURITY IMPROVEMENT	Α				15300	VAR	VAR	15300	VAR	VAR			
INTRUSION DETECTION SYSTEM	Α	610	472	1									
KG-175	Α				2180	265	8	1892	230	8	1892	230	8
HIGH ASSURANCE GUARDS	Α				750	15	50	750	15	50	750	15	50
SECURE TERMINAL EQUIPMENT (STE)	Α	1996	536	4	8493	2280	4	5364	1440	4	5811	1560	4
AIRTERM	Α	3186	331	10									
MINTERM	Α										4150	1660	3
KIV-7HS	Α										3000	826	4
KG-194	Α	276	100	3							800	215	4
STE PORTABLE POWER SUPPLY	Α	692											
KOK-22 UPGRADE	Α	140			461								
PRIMARY TIER 1 SYSTEM	Α	2275			400						2500		
ARMY INFORMATION GUARD	Α	10430											
FORCE DIGITIZATION	Α				4800			4800			10000		
FIELDING	Α	134			1237			644			863		
TOTAL		21440			33621			28750			29766		

Evh	ibit P-5a, Budget Procurement	History o	and Dianning					Date:	February	1000
Appropriation / Budget Activity/Serial No:	ibit P-5a, Budget Procurement	Weapon Syst			P_1 Line Item	Nomenclatur	0:		February	1999
OTHER PROCUREMENT / 2 / Communications and Electror Equipment	nics	weapon by st	еш туре.				e. STEM SECURITY PI	ROGRAM	- ISSP (T	A0600)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issu
Fiscal Years		and Type			Delivery	Each	\$	Now?	Avail	Date
FIREWALL										
FY 98	ESR, RICHMOND, VA	C/FFP	FT HUACHUCA, AZ	Dec-97	Feb-98	50	34	YES	NO	
NETWORK SECURITY IMPROVEMENT										
FY 99	TBS	C/FFP	FT HUACHUCA, AZ	Feb-99	Apr-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FFP	FT HUACHUCA, AZ	Oct-99	Dec-99	VAR	VAR	YES	NO	
INTRUSION DETECTION SYSTEM	PATRIOT TECHNOLOGIES INC									
FY 98	GAITHERBURG, MD	BPA	FT HUACHUCA, AZ	Feb-98	Mar-98	472	1	YES	NO	
KG-175										
FY 99	GTE	C/FPI	NSA, FT MEADE, MD	Jun-98	Oct-99	265	8	YES	NO	
FY 00	TBS	C/FPI	NSA, FT MEADE, MD	Oct-99	Jan-00	230	8	YES	NO	
FY 01	TBS	C/FPI	NSA, FT MEADE, MD	Oct-00	Jan-01	230	8	YES	NO	
HIGH ASSURANCE GUARDS										
FY 99	TBS	C/FPI	NSA, FT MEADE, MD	Feb-99	Apr-99	15			NO	
FY 00	TBS	C/FPI	NSA, FT MEADE, MD	Oct-99	Jan-00	15	50	YES	NO	
FY 01	TBS	C/FPI	NSA, FT MEADE, MD	Oct-00	Jan-01	15	50	YES	NO	
SECURE TERMINAL EQUIPMENT (STE)										
FY 98	L3, CAMDEN, NJ	IDIQ	NSA, FT MEADE, MD	Dec-97	Dec-98	536	4	YES	NO	
FY 99	L3, CAMDEN, NJ	IDIQ	NSA, FT MEADE, MD	Dec-98		1745		YES	NO	
FY 99	L3, CAMDEN, NJ	IDIQ	NSA, FT MEADE, MD	Feb-99		535		YES	NO	
FY 00	L3, CAMDEN, NJ	IDIQ	NSA, FT MEADE, MD	Oct-99	Oct-00	1440		YES	NO	
FY 01	L3, CAMDEN, NJ	IDIQ	NSA, FT MEADE, MD	Oct-00	Oct-01	1560	4	YES	NO	

REMARKS: TO BE SELECTED (TBS)

NATIONAL SECURITY AGENCY (NSA) BLANKET PURCHASE AGREEMENT (BPA)

INDEFINITE DELIVERY INDEFINITE QUANTITY (IDIQ)

	Exhibit P-5a, Budget Procurement							Date:	February [*]	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communication	ons and Electronics	Weapon Syst	ет Туре:			Nomenclatur	e: STEM SECURITY PI	ROGRAM	- ISSP (T	A0600)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issu Date
Fiscal Years		and Type			Delivery	Each	\$	Now?	Avail	
AIRTERM		0.571011		D 07	D 00					
FY 98	ITT, FT WAYNE, IN	OPTION	NSA, FT MEADE, MD	Dec-97	Dec-98	331	10	YES	NO	
MINTERM FY 01	TBS	C/FPI	NSA, FT MEADE, MD	Oct-00	Oct-01	1660	3	YES	NO	
KIV-7HS FY 01	TBS	C/FPI	NSA, FT MEADE, MD	Oct-00	Oct-01	826	4	YES	NO	
KG-194		0/111	NOA, I I WEASE, WE	001 00	00.01	020	7	120	110	
FY 98 FY 01	COMSEC UTILITY PROGRAM TBS	CUP C/FPI	NSA, FT MEADE, MD NSA, FT MEADE, MD	May-98 Oct-00	Jul-98 Oct-01	100 215			NO NO	

REMARKS: TO BE SELECTED (TBS)

NATIONAL SECURITY AGENCY (NSA)

COMSEC UTILITY PROGRAM (CUP) A JOINT CHIEFS OF STAFF PROGRAM Run BY NSA TO PROVIDE CONTINGENCY INFOSEC SYSTEMS.

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ial No:	Exhibit P-4	0, Budget I	ltem Justific								
ial No:			item oustine	cation Sheet					February 1999		
					P-1 Item Nomenclat	ture:					
REMENT /Communica	tions and Electronics	s Equipment / 5218	2948				TERRESTI	RIAL TRANSMISSIO	N (BU1900)		
ns:			Code:	Other Related Progr	am Elements:						
						1					
Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
213.4	6.7	19.8	1.9	2.0	2.0	2.1	2.1	2.1	2.2	0.0	254.3
213.4	6.7	19.8	1.9	2.0	2.0	2.1	2.1	2.1	2.2	0.0	254.3
213.4	6.7	19.8	1.9	2.0	2.0	2.1	2.1	2.1	2.2	0.0	254.3
	Prior Years 213.4 213.4	Prior Years FY 1997 213.4 6.7 213.4 6.7	Prior Years FY 1997 FY 1998 213.4 6.7 19.8 213.4 6.7 19.8	Prior Years FY 1997 FY 1998 FY 1999 213.4 6.7 19.8 1.9 213.4 6.7 19.8 1.9	Code: Other Related Programs: Prior Years FY 1997 FY 1998 FY 1999 FY 2000 213.4 6.7 19.8 1.9 2.0 213.4 6.7 19.8 1.9 2.0	Code: Other Related Program Elements: Prior Years	Code: Other Related Program Elements: Prior Years	Prior Years FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003	Prior Years FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 FY 2004	Prior Years FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005	Prior Years FY 1997 FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 To Complete

DESCRIPTION: This program supports the Department of Defense approved program to modernize and integrate digital operations within the Pacific and European Theaters. The architecture of the Defense Information Systems Network (DISN) will be reconfigured to accommodate the rapidly changing deployment and realignment of forces within the Pacific and European Theaters. This program is a component of the Army's seamless Enterprise Network that provides compatibility across operational systems. The modernization program supports force projection through technology insertion and evolutionary changes. The program utilizes emerging technological developments to capitalize on digital information systems throughout the worldwide DISN. The theater Commanders-in-Chief require a robust infrastructure that will facilitate mobilization and sustainment of a deployed force.

The US Forces, Korea (USFK) requirements have been approved in the Extended Korea Improvement Program (EKIP) and the Korea Communications Infrastructure Upgrade (KCIU) by the Joint Chiefs of Staff (JCS). The goal of these programs is to strategically improve the ability to successfully defend Korea during periods of stress, increase survivability of C4I systems for the warfighter, increase information systems capacity to meet surge requirements, and improve the ability to reconstitute C4I systems. These programs also support command and control communications networks serving the Commander-in-Chief, US Forces and United Nations Command, Korea, and Commander-in-Chief, US Forces, Japan. The ultimate goal is an integrated, survivable network that provides voice, data, messaging, video, and transmission services to the warfighter through the application of emerging technologies such as Asynchronous Transfer Mode (ATM), SONET and bulk encryption.

Exhibit P-40C Budget Item Justification Sheet Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT /Communications and Electronics Equipment / 52182948 P-1 Item Nomenclature TERRESTRIAL TRANSMISSION (BU1900) Program Elements for Code B Items Code Other Related Program Elements					
OTHER PROCUREMENT /Communications and Electronics Equipment / 52182948 TERRESTRIAL TRANSMISSION (BU1900)	Exhibit P-40C Budget It	tem Justific	cation Sheet		
	Appropriation / Budget Activity/Serial No.			P-1 Item Nomenclature	•
Program Elements for Code B Items Code Other Related Program Elements	OTHER PROCUREMENT /Communications and Electronics Equipment / 521829	948			TERRESTRIAL TRANSMISSION (BU1900)
	Program Elements for Code B Items	Code	Other Related Prog	ram Elements	
The Digital European Backbone (DEB) Programs realign the DISN in Europe to comply with mandates of the Conventional Forces, Europe agreement and the Base Realignment and Closure (BRAC) Acts. This program supports all efforts related to the modernization of the C4 infrastructure in the DISN-E. This program supports command and control communications networks serving the Commander-in-Chief, European Command (EUCOM). The ultimate goal is an integrated, survivable network that provides voice, data, messaging, video, and transmission services to the warfighter through the application of emerging technologies such as Asynchronous Transfer Mode (ATM), SONET and bulk encryption. JUSTIFICATION: The dramatic changes in the Pacific area have increased the demands to improve the survivability, capacity and reconstitution capabilities of communications in Korea. FY00 and FY01 funding enhances the readiness of U.S. Forces in Korea and provides the warfighters with a more robust, survivable, capacommand, control, communications and computer (C4) infrastructure for Pacific area deployments. Funding provides for the completion of the Digital Microwave Upgrade to include ATM and bulk encryption systems. The goal for the Defense Information Systems Network (DISN) - Europe is an integrated, survivable network that provides voice, data, messaging, video and transmission services to the warfighter through the application of emerging technology such as ATM, SONET, bulk encryption and network management systems. FN and FY01 finds will be utilized for on-going project management and engineering efforts to accomplish the required upgrades as defined by EUCOM initiatives.	Realignment and Closure (BRAC) Acts. This program sup command and control communications networks serving the network that provides voice, data, messaging, video, and Asynchronous Transfer Mode (ATM), SONET and bulk end JUSTIFICATION: The dramatic changes in the Pacific are communications in Korea. FY00 and FY01 funding enhance command, control, communications and computer (C4) infugrade to include ATM and bulk encryption systems. The goal for the Defense Information Systems Network (Ditransmission services to the warfighter through the applications.)	oports all eff the Comman transmissio cryption. ea have incr ces the read frastructure ISN) - Europ tition of eme	orts related to the der-in-Chief, on services to eased the dediness of U.S for Pacific ar pe is an integrging technol	o the modernization of European Command the warfighter through mands to improve the E. Forces in Korea and ea deployments. Fundamental Fun	the C4 infrastructure in the DISN-E. This program supports (EUCOM). The ultimate goal is an integrated, survivable the application of emerging technologies such as survivability, capacity and reconstitution capabilities of provides the warfighters with a more robust, survivable, capable ling provides for the completion of the Digital Microwave ork that provides voice, data, messaging, video and NET, bulk encryption and network management systems. FY00

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER PROCU and Electroni	IREMENT /	Communications		TERRES	em Nomenclature: TRIAL TRANSMIS			Weapon System	Type:		ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCos
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
TERRESTRIAL TRANSMISSION EUROPE TERRESTRIAL TRANSMISSION PACIFIC		834 18976			1057 890			1018 1011			1024 1016		
TOTAL		19810			1947			2029			2040		

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ But OTHER PROCU and Electronic	IREMENT /	Communications			em Nomenclature: TRIAL TRANSMIS	SION (BU2000)		Weapon System	Type:	Date: Feb	ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
EUROPE:													
Engineer, Furnish, Install & Test (EFI&T) Staging Support	Α	50	1	50	50	1	50	50	1	50	50	1	50
Army Maintenance Supply Facility (AMSF) Spt	Α	15	1	15	15	1	15	15	1	15	15	1	15
EI&T Hanau - Feldberg	Α	562	1	562	128								
EI&T Europe	Α							130			127		
Depot Support	Α	21											
Contractor Engineering	Α	25			50			50			50		
Project Management	Α	22			169	VAR	VAR	169	VAR	VAR	169	VAR	VAR
Engineering Support	Α	139			645			604	VAR	VAR	613	VAR	VAR
TOTAL		834			1057			1018			1024		

Fyhi	bit P-5a, Budget Procuremen	nt History a	and Planning		Date:	ebruary	1999			
Appropriation / Budget Activity/Serial No:	bit i -3a, Baaget i rocaremen	Weapon Sys	_		P-1 Line Item	Nomenclature	a·		cordary	1333
DTHER PROCUREMENT /Communications and Electronics Equi	pment	,,.	71				TRIAL TRANSMISS	SION (BU2	000)	
VBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Iss Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Engineer, Furnish, Install, & Test/Staging Spt										
FY98	AMC Europe	MIPR	CECOM	Dec-97	Jan-98	1	50			
FY99	AMC Europe	MIPR	CECOM	Dec-98		1	50			
FY00	AMC Europe	MIPR	CECOM	Dec-99		1	50			
FY01	AMC Europe	MIPR	СЕСОМ	Dec-00		1	50			
Army Maintenance Supply Facility (AMSF) Spt										
FY98	5TH Signal Cmd	MIPR	CECOM	Mar-98	Mar-98	1	15			
=Y99	5TH Signal Cmd	MIPR	CECOM	Mar-99		1	15			
=Y00	5TH Signal Cmd	MIPR	CECOM	Mar-00		1	15			
-Y01	5TH Signal Cmd	MIPR	CECOM	Mar-01	Mar-01	1	15			
EI&T Hanau - Feldberg										
FY98	Federal Info Sytems	MIPR	GSA	Mar-98	May-98	1	562			
-Y99	Federal Info Sytems	MIPR	GSA	Dec-98		1	128			
Depot Support	Defense Distribution, Region West, San Joaquin, CA	MIPR	CECOM	Jan-98	Jan-98					
EI&T - Europe										
FY00	TBS	TBD	CECOM	Jan-00	Mar-00	VAR	VAR			
FY01	TBS	TBD	CECOM	Jan-01	Mar-01	VAR	VAR			
REMARKS:										

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER PROCU and Electronic	JREMENT /	Communications			em Nomenclature: STRIAL TRANSMIS (BU2100)			Weapon System	Type:	Date: Feb	ruary 1999
OPA	ID	una 2.000.0111	FY 98	, 62 1626 16		FY 99	(B02100)		FY 00			FY 01	
Cost Elements	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
PACIFIC:		\$000	Lacii	\$000	\$000	Lacii	\$ 000	\$000	Lacii	\$000	\$000	Lacii	\$000
Digital Microwave Phase II - EFI&T	А	4015	1	4015									
KG 189 Equipment for DMU	Α	686	14	49									
EKIP Engineering	Α	315	VAR	VAR									
Emergency Action Facility (EAF) Upgrade	А	3975	VAR	VAR									
Korea Comm Infrastructure Upgrade	Α	8700	1	8700									
КСІИ ІВОМ	А	200	VAR	VAR									
DMU BOM					200	VAR	VAR						
Battlefield Visualization System	Α	1000	1	1000									
Contractor Support	Α	85	VAR	VAR									
Engineering Support	А				265			265			265		
Project Management	А				125			125			130		
DMU Phase II	Α				300	VAR	VAR						
KCIU Phase IV	А							621	VAR	VAR	621	VAR	VAR
TOTAL		18976			890			1011			1016		

Exhib	oit P-5a, Budget Procureme							Date:	February	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT /Communications and Electronics Equip / 52182948	ment	Weapon Syst	tem Type:			Nomenclatur TERRESTRIA	e: AL TRANSMISSION	PACIFIC	(BU2100)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
PACIFIC:										
Digital Microwave Phase II - EFI&T										
FY98	Harris Corp, Melbourne, FL	C/FP	CECOM	Nov-97	Dec-97	1	4015			
KG-189 FY98	Motorola Space Systems Scottsdale, AZ	MIPR	NSA	Jan-98	Mar-98	14	49			
Emergency Action Facility (EAF) Upgrade FY98	Eighth US Army (EUSA)	MIPR	CECOM	VAR*	Jun-98	VAR				
Korea Comm Infrastructure Upgrade FY98 FY00 FY01	Lucent Technologies, Charlotte, NC	MIPR	GSA	Mar-98	Jul-98	1	8700 621 621			
Battlefield Visualization System FY98	TBS	MIPR	Eighth US Army	Sep-98	Dec-99	1				
KCIU IBOM FY98	In-House	MIPR	ISL Sig BDE	Jan-98	Mar-98					
DMU BOM FY99	First Signal Brigade	MIPR		Jan-99	Mar-99		200			
1-135	r iist Signai Brigade	WIFK		Jan-99	Wai-99		200			

REMARKS: *Numerous contracts awarded by EUSA.

	_	Evhibit D 4	IO Dudmat	ltom lugtifi	ation Chast			Date:				
		EXHIBIT P-4	iv, Buaget	item Justini	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	-				
OTHER P	PROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	nt				BASE SUPPO	ORT COMMUNICAT	ONS (BU4160)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	157.4	2.6	2.7	1.1	1.8	1.9	1.9	1.9	7.4	7.4	0.0	186.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	157.4	2.6	2.7	1.1	1.8	1.9	1.9	1.9	7.4	7.4	0.0	186.2
Initial Spares												
Total Proc Cost	157.4	2.6	2.7	1.1	1.8	1.9	1.9	1.9	7.4	7.4	0.0	186.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program funds the Army-wide requirements for base support radio systems and Test, Measurement and Diagnostic Equipment (TMDE) for US Army Signal Command (USASC). Base support radios are used by installation military police, fire departments, medical personnel and other emergency response activities to coordinate and support emergency response efforts and for critical communications support during mobilization, deployment and split-based operations. Base support radio systems will permit users to share frequencies, thus conserving scarce radio spectra and also provide secure voice/data transmission and access to local telephone systems from portable hand-held radios. The Federal Communications Commission (FCC) and National Telecommunications Information Administration (NTIA) have drastically reduced the available frequencies throughout CONUS. In Korea, the Ministry of Communications (MOC) will implement Phase 2 changes to operational bandwidth and channel separation criteria for Very High Frequency (VHF) Commercial Land Mobile Radios (CLMR) by FY 04, at which time existing radios will become obsolete because they cannot be modified to add the new frequency. Mission capability of law enforcement, security and other base forces during mobilization, deployment and split-base operations would be greatly constrained without adequate communications capability. This program also supports the replacement of obsolete, nonsupportable TMDE and interim mission support for command, control, communications and computers worldwide. The USASC TMDE inventory consists of general purpose and special purpose test equipment. This command's capability is maintained through phased replacement of obsolete, nonsupportable TMDE. Additionally, long lead times for acquisition of new TMDE results in this program supporting interim acquisition of special purpose TMDE to satisfy mission requirements. Densities of TMDE supported by this program are determined by Defense Information Systems Agency (DISA) standards and maintena

JUSTIFICATION: FY 00/01 funds upgrade or replace base support radio systems that US Army Forces Command (FORSCOM) and Eighth US Army (EUSA) have identified as critical requirements. Funds will also purchase spectrum analyzers and associated hardware to allow deployable tactical satellite units to more precisely tune the transmission between the earth terminal and satellite. This is a new requirement based on increased use of satellite bandwidth which has narrowed the bandwidth availability. This equipment will be used by soldiers to monitor the signal so that corrections can be made immediately on-site. The only equipment currently fielded to perform this work is at depot maintenance facilities. There continues to be a requirement at the maintenance facilities to use these analyzers to recalibrate equipment that has been repaired.

Exhibit P-5, Weapon		Appropriation/ But OTHER P	dget Activity				m Nomenclature: UPPORT COMM	UNICATIONS		Weapon System	Type:	Date: Febi	uary 1999
OPA Cost Analysis		Communications					(BU4160)						
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
TMDE Replacement/Quality Assurance TMDE	Α	678	VAR	VAR	672	VAR	VAR	1408	VAR	VAR	1432	VAR	VAI
Non-Tactical Trunked Radio Sys (FORSCOM)	Α	1107	1	1107	290	1	290	282	1	282	280	1	28
Commercial Land Mobile EUSA Radio Sys	Α	153	1	153	159	1	159	146	1	146	144	1	14
Secure Communications Capability Upgrade (EUCOM)	Α	800	VAR	VAR									
(LOOOW)													
TOTAL		2738			1121			1836			1856		

Exhi	bit P-5a, Budget Procuremer	nt History a		Date:	February ⁻	1999				
Appropriation / Budget Activity/Serial No:		Weapon Syst			P-1 Line Item	Nomenclatur	e:			
OTHER PROCUREMENT / 2 / Communications and Electron Equipment	ics					BASE SUP	PORT COMMUNICA	ATIONS (E	BU4160)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
TMDE Replacement/Quality Assurance TMDE										
FY 98	VAR*	VAR*	СЕСОМ	VAR*	VAR*	VAR	VAR	YES		
FY 99	TBS	VAR*	СЕСОМ	VAR*	VAR*	VAR	VAR		NO	
FY 00	TBS	VAR*	CECOM	VAR*	VAR*	VAR	VAR		NO	
FY 01	TBS	VAR*	CECOM	VAR*	VAR*	VAR			NO	
Non-Tactical Trunked Radio Sys (FORSCOM)										
FY 98	MOTOROLA, Hanover, MD	*Option	CECOM	Dec-97	Mar-98	VAR	VAR	YES	NO	
FY 99	TBS	*Option	TBS	Mar-99	Jun-99	VAR	VAR	YES	NO	
FY 00	TBS	*Option	TBS	Jan-00	Mar-00	VAR	VAR	NO	NO	
FY 01	TBS	*Option	TBS	Jan-01	Mar-01	VAR	VAR	NO	NO	
Commercial Land Mobile EUSA Radio System										
FY 98	MOTOROLA, Honolulu, HI	C/FP	USACCK	Nov-97	Feb-98	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	USACCK	Feb-99	Apr-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	USACCK	Dec-99	Mar-00	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	USACCK	Dec-00	Mar-01	VAR	VAR	YES	NO	
Secure Communications Capabilities Upgrade (EUCOM)										
FY 98	MOTOROLA,	C/FP	Wiesbaden Regional	Sep-98	Nov-98	VAR	VAR	YES		
	Heinrich and Taunusstein,		Contracting Center	1 '						
	Republic of Germany									

CECOM - US Army Communication and Electronics Command, Ft Monmouth, NJ

VAR - Various sites require different levels and types of equipment.

VAR*- TMDE efforts provide replacement test equipment to support the Army Signal Command mission.

State of the art test equipment is contracted from a variety of manufacturers for various sites.

*Option - Competitive Contract with fixed price options.

USACCK - US Army Contracting Command Korea

								Date:				
		Exhibit P-4	0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	=				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				ARM	Y DISN ROUTER (B	U0300)		
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
			T					T	1			
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	47.2	2.1	2.9	3.6	3.7	4.4	5.0	6.6	6.7	6.9		89.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	47.2	2.1	2.9	3.6	3.7	4.4	5.0	6.6	6.7	6.9		89.0
Initial Spares												
Total Proc Cost	47.2	2.1	2.9	3.6	3.7	4.4	5.0	6.6	6.7	6.9		89.0
Flyaway U/C												
Wpn Sys Proc U/C												<u> </u>

DESCRIPTION: The Army Defense Information System Network (DISN) Router Program (ADRP) addresses Army requirements for DISN connections. The DISN includes both the Unclassified IP Router Network (NIPRNET) and the Secret IP Router Network (SIPRNET). The ADRP includes the acquisition of routers, access servers, modems, and associated networking and management devices necessary to connect Army host computers, terminals and Local Area Networks (LANs) to the DISN. Program acquisition also includes installation, Installation Bill of Material (IBOM), training and maintenance. The routers and access servers are tailored to data requirements at each Army location and are expandable to meet changes in data requirements. The routers are also upgradable to future Army, DOD and industry standards. Reducing the number of connections required to support Army DISN requirements avoids multiple router connection charges with each associated DISN connection. The ADRP is an integral part of the Power Projection Command, Control, Communications, and Computer Infrastructure (PPC4I) initiative. The overall objectives of PPC4I are to: (1) support communications requirements of deployed forces and their access to home installation sustaining base systems, and (2) emplace information systems in a coordinated, synchronized, integrated manner, thereby optimizing funding/personnel resources and maximizing the operational benefits. PPC4I identifies the cooperative role and responsibility for installations in the active, direct execution of the National Military Strategy to project forces beyond the borders of the United States to anywhere in the world with little advance notice.

JUSTIFICATION: FY 00 funds will procure 20 Routers and 21 Access Servers. FY 01 funds will procure 24 Routers and 26 Access Servers. As a result of a funding policy change, FY 99 and out reflects project management and engineering support efforts in support of the Army DISN Router Program.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	ROCUREM	ENT/2/			m Nomenclature: IY DISN ROUTER	(BU0300)		Weapon System	Туре:	Date: Feb	ruary 1999
OPA	ID		FY 98		FY 99	99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Routers	А	1815	*20	VAR	1720	*19	VAR	1815	*20	VAR	2178	*24	VAR
Access Servers	Α	1066	*21	VAR	1066	*21	VAR	1066	*21	VAR	1320	*26	VAR
Project Management Support	Α				338			339			355		
Engineering Support	Α				480			480			517		
TOTAL		2881			3604			3700			4370		
* Unit costs are site specific.													

								Date:		
	Exhibit P-5a, Budget Procuremen	nt History a	and Planning						February ⁻	1999
Appropriation / Budget Activity/Serial No:		Weapon Syst	tem Type:		P-1 Line Item	Nomenclatur	e:			
OTHER PROCUREMENT / 2 / Communications Equipment	and Electronics					ARI	MY DISN ROUTER	(BU0300)		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	Date
Routers **										
FY 98	OAO Corp.	C/FP	CECOM	Mar-98	VAR*	20	VAR	YES		
FY 99	OAO Corp.	C/FP	CECOM	Feb-99	VAR*	19	VAR	YES		
FY 00	OAO Corp.	C/FP	CECOM	Feb-00	VAR*	20	VAR			
FY 01	OAO Corp.	C/FP	CECOM	Feb-01	VAR*	24	VAR	YES	NO	
Access Servers **										
FY 98	OAO Corp.	C/FP	CECOM	Mar-98	VAR*	21	VAR	YES		
FY 99	OAO Corp.	C/FP	CECOM	Feb-99	VAR*	21	VAR	YES		
FY 00	OAO Corp.	C/FP	CECOM	Feb-00	VAR*	21	VAR	YES		
FY 01	OAO Corp.	C/FP	CECOM	Feb-98	VAR*	26	VAR	YES	NO	

OAO, Greenbelt, MD

^{*} Multiple awards and delivery orders/dates throughout the FY.
** Site specific.

	<u> </u>		<u> </u>	<u> </u>		<u> </u>		Date:	<u> </u>	<u> </u>	<u> </u>	
		Exhibit P-4	0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:	=				
OTHER P	ROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t				ELECTROMA	G COMP PROG (EN	MCP) (BD3100)		
Program Elements for Code B It	tems:			Code:	Other Related Progr	ram Elements:						
	1					T	T	1	1		1	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	13.0	0.5	0.3	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.0	17.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	13.0	0.5	0.3	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.0	17.1
Initial Spares												
Total Proc Cost	13.0	0.5	0.3	0.5	0.4	0.4	0.5	0.5	0.5	0.5	0.0	17.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The ELECTROMAGNETIC COMPATIBILITY PROGRAM (EMCP) ensures readiness and effectiveness of command, control, communications systems throughout the testing of tactical and strategic systems for electromagnetic compatibility (EMC) with other civil or defense communications-electronic (C-E) systems operating within their environment. This includes the need to conduct EMC surveys at proposed and existing C-E sites intended for upgrade or planning for frequency resources. This is done to avoid expensive reworking or retrofitting. Propagation engineering is required in designing new networks and C-E equipment. Unique computer models are developed, upgraded and maintained for calculating EMC, propagation predictions, and engineering analyses. These models perform systems analyses for: (1) line of sight; (2) high frequency skywave and groundwave; (3) meteor burst; (4) tropospheric scatter communications systems; (5) antenna performance; (6) spectrum management.

JUSTIFICATION: The EMCP requires the procurement of the following replacement and enhancement equipment to sustain the program.

- A. EMC MEASUREMENT EQUIPMENT: Used to conduct EMC surveys to characterize the EM environment. Surveys are used to measure spectrum occupancy, detect interference, and eliminate EM hazards.
- B. SPECTRUM ANALYZERS: Display and record the frequency domain and transmission characteristics of the radio frequency signals acquired.
- C. DIRECTOR OF INFORMATION MANAGEMENT (DOIM) ARMY INTERFERENCE RESOLUTION PROGRAM (AIRP) UPGRADE: These systems include hand-held direction finding equipment and computers to run frequency management software and other EM interference (EMI) software to be supplied to Army DOIMs worldwide to resolve radio frequency interference (RFI) problems. These systems will reduce the use of limited resources by correcting RFI problems at the DOIM level.

Exhibit P-40C Budget It	tem Justific	cation Sheet		Date February 1999
Appropriation / Budget Activity/Serial No.			P-1 Item Nomenclature	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				ELECTROMAG COMP PROG (EMCP) (BD3100)
Program Elements for Code B Items	Code	Other Related Progr	gram Elements	
JUSTIFICATION (Continued):		<u> </u>		
D. MICROWAVE PROPAGATION PREDICTION SYSTEM system, including high data rate digital systems. E. ENGINEERING WORKSTATIONS AND PERIPHERAL F. SPECTRUM MONITORING EQUIPMENT: Buys a syst G. MEASUREMENT CONTROLLERS: Automates the per	_S: Buys co	omputers and ovides the cap	I related equipment to performation particular to monitor frequence	orm propagation engineering analysis functions.

		Exhibit P-4	0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:					
OTHER PROC	CUREMENT /Communica	tions and Electronics	s Equipment / 5218	2948				WW TECH CO	N IMP PROG (WW	TCIP) (BU3610)		
Program Elements for Code B II	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	92.9	1.2	0.9	2.0	2.9	2.9	3.0	3.0	3.1	3.2	0.0	115.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	92.9	1.2	0.9	2.0	2.9	2.9	3.0	3.0	3.1	3.2		115.1
Initial Spares												
Total Proc Cost	92.9	1.2	0.9	2.0	2.9	2.9	3.0	3.0	3.1	3.2	0.0	115.1
Flyaway U/C		•										•
Wpn Sys Proc U/C		•										•

DESCRIPTION: The Worldwide Technical Control Improvement Program (WWTCIP) provides needed upgrades, expansion, and modernization of the Worldwide Defense Information Systems Network (DISN) technical control facilities in order to effect the integration and efficient operation of DCS digital transmission subsystems, and to reduce operating costs. This program provides DC power, timing and synch, line conditioning equipment, automatic technical control, digital patch and access system (DPAS), VF tactical interface, Defense Communication Systems TRI-TAC interface, and appropriate test equipment and associated hardware. WWTCIP supports worldwide communications transmission media and switching upgrades such as the DISN - Europe, Extended Korean Improvement Program (EKIP), Japan Reconfiguration and Digitization, and Defense Satellite Communications. Program also funds the automation of Technical Control Facilities, as part of the Joint Chiefs of Staff (JCS) directed Korean C4I enhancements under EKIP and Korea Communications Infrastructure upgrade (KCIU).

JUSTIFICATION: FY00 and FY01 funds will be used to continue the upgrade of TrueTime Global Positioning System Receivers to meet security requirements. Funds will also be used to continue the automation/integration of Technical Controls at sites in Europe.

Exhibit P-5, Weapon		Appropriation/ Bu OTHER PROCU	-				em Nomenclature: CH CON IMP PRO			Weapon System	Type:	Date: Febr	uary 1999
OPA Cost Analysis		and Electronic					(BU3610)	og (wwicir)					uary 1999
OPA	ID		FY 98			FY 99			FY 00	ī		FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
	+	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Automation/Integration of Technical Controls (AITC) Equipment	А	301	VAR	VAR									
AITC EQUIP/Installation	Α							1500	3	500	1500	3	500
AITC EQUIP/Installation - Germany	Α				1500	1	1500						
Contractor Engineering Support	Α	30											
AITC New Equipment Training	Α	14											
AITC Engineering	Α	148			165								
Tech Control Facility - Install - Ft Bragg	Α	230	1	230									
Tech Control Facility - Instal - Vaihingen	Α	186	1	186									
Engineering Support	Α				130			130			150		
Project Management	Α				230			230			230		
Matrix Switch Upgrades								1031	VAR	VAR	1006	VAR	VAR
TOTAL		909			2025			2891			2886		

Exhibit	P-5a, Budget Procuremen							Date:	February 1	999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon Syst	tem Type:		P-1 Line Item	Nomenclatur WW TECH (e: CON IMP PROG (W	WTCIP) (BU3610)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date		QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Automation/Integration of Technical Controls Equip										
FY98	General Signal, Mt. Laurel, NJ	C/FP	CECOM	Jan-98	Mar-98	VAR				
AITC EQUIP/INSTL										
FY00	In Range Tech, Mt Laurel, NJ	C/FP	СЕСОМ	Jan-00	Apr-00	3	500			
FY01	In Range Tech, Mt Laurel, NJ	C/FP	CECOM	Jan-01	Apr-01	3				
AITC EQUIP/INSTL - Germany FY99	In Range Tech, Mt Laurel, NJ	C/FP	CECOM	Jan-99	Apr-99	1	1500	Yes		
AITC New Equipment Training FY98	In House	MIPR	СЕСОМ	Jul-98	Jul-98	VAR	VAR			
Tech Control Facility - Install FT BRAGG FY98	In-House	C/FP	504TH SIGNAL BN	Jun-98	Jun-98	1	230	Yes		
Automation/Integration of Technical Controls										
Tech Control Facility - Install Vaihingen FY98	JAYCOR, McLean, VA	C/FP	СЕСОМ	Feb-98	Mar-98	1	186	Yes		
Matrix Switch FY00	In-Range	C/FP	CECOM	Jan-00	Mar-00	VAR	VAR			
FY01				Jan-01	Mar-01	VAR	VAR			

WR - Work Request

CECOM - Communications-Electronics Command In Range Technologies was formerly General Signal
* Site Specific

	<u> </u>		<u> </u>		<u> </u>	<u> </u>		Date:	<u> </u>	<u> </u>	<u> </u>	
		Exhibit P-4	0, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:	=				
OTHER F	PROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t				INFORM	MATION SYSTEMS	(BB8650)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
						_	_					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	804.0	48.5	60.2	84.3	56.9	58.2	82.1	81.7	91.5	80.0	0.0	1447.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	804.0	48.5	60.2	84.3	56.9	58.2	82.1	81.7	91.5	80.0	0.0	1447.4
Initial Spares												
Total Proc Cost	804.0	48.5	60.2	84.3	56.9	58.2	82.1	81.7	91.5	80.0	0.0	1447.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program consolidates funding for improvement/modernization of Information Systems worldwide. It encompasses nontactical telecommunications services in support of Army base operations and Information Systems for Command and Control (C2) requirements. Also, it funds acquisition of common user information systems in support of Military Construction, Army (MCA) projects.

JUSTIFICATION: The Information Systems (CONUS/Western Hemisphere) program finances upgrades to the Army's telecommunication infrastructure. It includes the MACOM telephone Modernization Program (MTMP), an integral part of the Power Projection Command Control Communication Computer Infrastructure (PPC4I) initiative which supports the communications requirements of deployed forces and their access to home installation sustaining base systems. The Information Systems (CONUS/Western Hemisphere) program also finances information infrastructure investments and modernization to support the National Guard portion of the Army Distance Learning Program. The MTMP supports replacement of aging electromechanical switches with electronic digital switches to implement the Integrated Services Digital Network (ISDN) concept and insures compatibility with public networks. The Information Systems - MCA Support program finances acquisition of information systems equipment and switch expansion equipment to be installed in conjunction with military construction projects worldwide, which are not included in the MCA funding. The Information Systems - EUCOM program finances the procurement of hardware and software to replace aging communications equipment in an effort to streamline operations and maintenance costs, improve productivity and customer service, and reduce circuit costs in Europe. The Information Systems - PACOM program continues the transition to the ISDN for the Pacific Theater, which will provide intra-base information transfer capability and common data transmission in the place of costly individual stovepipe and non-standard networks.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bud OTHER P Communications	ROCUREN	IENT / 2 /			em Nomenclature: RMATION SYSTE			Weapon System	Type:	Date: Feb	ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
OOST Elements	0.5		_	\$000		_	\$000						
INFORMATION SYSTEMS (CONUS/WESTERN INFORMATION SYSTEMS (EUCOM) INFORMATION SYSTEMS (MCA SUPPORT)	HE	\$OOO 53450 386 829 5580	Each	\$000	\$000 56149 15445 6584 6102	Each	\$000	\$000 50644 421 896 4954	Each	\$000	\$000 51879 432 884 5001		\$000
TOTAL		60245			84280			56915			58196		

								Date:				
		Exhibit P-4	0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	-				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t			I	NFORMATION SYS	TEMS (CONUS/WES	STERN HEM) (BB87	(00)	
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	504.0	37.8	53.4	56.1	50.6	51.9	75.4	74.8	83.9	71.7		1059.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	504.0	37.8	53.4	56.1	50.6	51.9	75.4	74.8	83.9	71.7		1059.1
Initial Spares												
Total Proc Cost	504.0	37.8	53.4	56.1	50.6	51.9	75.4	74.8	83.9	71.7		1059.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This budget line includes efforts in support of the MACOM Telephone Modernization Program (MTMP) and the European Telephone Switch (ETS) upgrades. MTMP is an integral part of the Power Projection Command, Control, Communications and Computers Initiative (PPC4I). The overall objective of PPC4I is to: (1) support communication requirements of deployed forces and their access to home installation sustaining base systems; and (2) to emplace Information Systems in a coordinated, synchronized, integrated manner, thereby optimizing funding/personnel resources and maximizing the operational benefits. PPC4I identifies the cooperative role and responsibility for installations in the active, direct execution of the National Military Strategy to project forces beyond the borders of the United States to anywhere in the world with little advance notice. The MTMP started in FY 83 to replace the old Dial Central Offices with state-of-the-art digital switches at CONUS Army installations. Upgrading telecommunications equipment insures the most effective interface with existing public telecommunications networks and optimizes the development of evolving Department of the Army programs. MTMP is also assigned with the implementation of the Integrated Services Digital Network (ISDN) within the Army, thus supporting the most efficient utilization of bandwidth.

The ETS network replacements in support of USCINCEUR and USAREUR switching requirements, as documented in CINCEUR letter dated 9 Oct 97 and USAREUR letter dated 20 Oct 97, supports the replacement of existing Army Siemens KNS-4100 switches with state-of-the-art switches as part of the overall DISN-EUR switch replacement program.

JUSTIFICATION: FY00 funds will provide upgrades for five (5) large MTMP switches, which were delayed due to the Y2K redirection of funds. These posts are Ft Bragg, Ft Campbell, Ft Riley, Ft Benning, and Ft Gordon. These upgrades will include the SVR 4002 software and line capacity expansions to allow the switches to function efficiently and provide state-of-the-art service for the warfighter at these power projection sites. FY01 funds will provide software and hardware improvements for twelve small MTMP switches. This will allow the remainder of the switch upgrades that were deferred due to the Y2K redirection of funding to be accomplished.

Exhibit P-40C Budget It	tem Justific	cation Sheet		Date February 1999
Appropriation / Budget Activity/Serial No.			P-1 Item Nomenclature	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			INF	FORMATION SYSTEMS (CONUS/WESTERN HEM) (BB8700)
Program Elements for Code B Items	Code	Other Related Progr	gram Elements	
EUCOM has developed an installation sequence list for the will vary depending on the type of switch (large multifunction DSSMP modernization contractor. FY99 and out reflect project management and engineering	on, small m	ultifunction, e	end office or remote switch	

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	PROCUREN and Electro	IENT/2/		INOO)	em Nomenclature: NFORMATION SY JS/WESTERN HE	'STEMS		Weapon System	Туре:		ruary 1999
OPA	ID		FY 98			FY 99				FY 00		FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
	-	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
MACOM Telephone Modernization Program (MTMP): (MU2Z)													
Digital Switching System	Α							22150	*5	VAR	23383	*12	VAF
MTMP Options/Modifications	Α	122	*VAR	VAR	500	* VAR	VAR	500	*VAR	VAR	500	*VAR	VAF
Project Management Support	Α				2039			2056			2060		
Engineering Support	Α				1435			1441			1463		
Year 2K Software/Hardware	Α	21907	*13	VAR	42396	*29	VAR						
EOC Upgrade - Ft Bragg (FORSCOM)	Α	762	1	762									
HQ PBX System (MEPCOM)	Α	392	1	392									
DISTANCE LEARNING (DCSOPS) Networks Class Rooms Operations	A	17902 7419 4946	*VAR *VAR *VAR	VAR VAR VAR									
DISN EUROPE Switch Upgrade (MXKA)	Α				9779	*VAR	VAR	20056	*VAR	VAR	20032	*VAR	VAF
Project Management Support	Α							1525			1525		
Engineering Support	Α							2916			2916		
TOTAL		53450			56149			50644			51879		
*Quantity is purchased at various unit costs.													

								Date:		
Exhib	it P-5a, Budget Procureme	nt History a	nd Planning						February	1999
Appropriation / Budget Activity/Serial No:		Weapon Syst	em Type:		P-1 Line Item	Nomenclatur	e:			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment					INFO	RMATION SY	STEMS (CONUS/W	/ESTERN	HEM) (BB	88700)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	Date
MACOM Telephone Modernization Prog (MTMP)										
Digital Switching System										
FY 00	DSSMP, LTLCS	OPT/C/FP	CECOM	Jan-00	5 *	VAR	VAR	YES	NO	
FY 01	DSSMP, LTLCS	OPT/C/FP	CECOM	Jan-01	12 *	VAR	VAR	YES	NO	
MTMP Options / Modifications										
FY 98	GTE, DSSMP, LTLCS	OPT/C/FP	CECOM	Jun-98	VAR *	VAR	VAR	YES		
FY 99	GTE, DSSMP, LTLCS	OPT/C/FP	CECOM	Jun-99	VAR *	VAR	VAR	YES		
FY 00	DSSMP, LTLCS	OPT/C/FP	CECOM	Jun-00	VAR *	VAR	VAR	YES		
FY 01	DSSMP, LTLCS	OPT/C/FP	CECOM	Jun-01	VAR *	VAR	VAR	YES	NO	
YEAR 2K SOFTWARE/HARDWARE UPGRADE										
FY98	GTE, DSSMP	C/FP	CECOM	Feb-98	13**	13	VAR	YES	NO	
FY99	DSSMP	C/FP	CECOM	Oct-98	29**	29	VAR	YES	NO	
DISTANCE LEARNING [DCSOPS]										
FY98	VAR	C/FP	GSA Schedule	VAR	VAR	VAR	VAR	YES		
DISN Europe Switch Upgrade										
FY99	DSSMP	C/FP/OPT	CECOM	Feb-99	Aug-99	VAR	VAR	YES		
FY00	DSSMP	C/FP/OPT	CECOM	Feb-00		VAR	VAR	YES		
FY01	DSSMP	C/FP/OPT	CECOM	Feb-01	Aug-98	VAR	VAR	YES		

GTE, Needham, MA

DSSMP = Digital Switch Systems Modernization Program (19 Contracts)

LTLCS = Long Term Life Cycle Support Contract (3 Contracts)

^{*} Multiple award and delivery dates throughout FY

^{**} Site specific. Unit cost varies depending on switch size and use of new or relocated switch.

								Date:				
		Exhibit P-4	0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/Se	erial No:					P-1 Item Nomencla	ture:	=				
OTHER PR	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				INFORMATION	ON SYSTEMS (EUC	OM) (BB8800)		
Program Elements for Code B Ite	ems:			Code:	Other Related Prog	ram Elements:						
	T T		T					ı	ı	1		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	151.0	0.4	0.4	15.4	0.4	0.4	0.9	0.9	1.3	1.7		172.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	151.0	0.4	0.4	15.4	0.4	0.4	0.9	0.9	1.3	1.7		172.8
Initial Spares												
Total Proc Cost	151.0	0.4	0.4	15.4	0.4	0.4	0.9	0.9	1.3	1.7		172.8
Flyaway U/C												
Wpn Sys Proc U/C		·										<u>-</u>

DESCRIPTION: The European Telephone Switch (ETS) network switch replacements in support of USCINCEUR and USAREUR switching requirements, as documented in CINCEUR letter dated 9 Oct 97 and USAREUR letter dated 20 Oct 97, supports the replacement of existing Army Siemens KNS-4100 switches with state-of-the-art switches as part of the overall DISN-EUR switch replacement program.

JUSTIFICATION: EUCOM has developed an Installation Sequence List (ISL) for the DISN-E switch replacement program. The number of switches that will be upgraded in FY00 and FY01 will vary depending on the type of switch (large multifunction, small multifunction, end office or remote switching unit) and on the price negotiated with the winning DSSMP modernization contractor.

The FY99 and out reflect project management and engineering support efforts in support of the DISN-E program.

Exhibit P-5, Weapon		Appropriation/ Bu	dget Activity				m Nomenclature: MATION SYSTEN	AS (ELICOM)		Weapon System	Type:	Date:	ruary 1999
OPA Cost Analysis		Communications				INFOR	(BB8800)	iio (EUCOIVI)				reb	iuaiy 1999
OPA	ID		FY 98			FY 99	(220000)		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Communication Hardware/Software Upgrades	А	386	VAR	VAR									
·	1	000	•,	77.11.									
European Switch Upgrade	Α				12304	VAR	VAR						
Project Management Support	А				2425			421			432		
Engineering Support	Α				716								
TOTAL		386			15445			421			432		

	xhibit P-5a, Budget Procureme							Date:	February ⁻	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Ele	ectronics	Weapon Syst	em Type:		P-1 Line Item	Nomenclatur		100M) (D	D0000)	
Equipment			_	_		INFORMA	TION SYSTEMS (EI			252
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Communication Hardware/Software Upgrades										
FY 98	ALCATEL	OPTION	5TH SIGNAL COMMAND	Mar-98	May-98	VAR	VAR	YES		
European Switch Upgrade										
FY 99	DSSMP	C/FP/OPT	CECOM	Mar 99*	Aug-99	VAR	VAR	YES		

ALCATEL, Dallas, TX

VAR*-multiple contracts awarded/delivered throughout year.

DSSMP = Digital Switch Systems Modernization Program (19 Contracts)

		Exhibit P-4	I0, Budget	Item Justific	cation Sheet			Date:		February 1999					
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:	=							
OTHER P	ROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				INFORMATION	ON SYSTEMS (PAC	OM) (BB8900)					
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:									
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	0 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 To Complete Total									
Proc Qty															
Gross Cost	110.0	0.8	0.8	6.6	0.9	0.9	0.9	0.9	0.9	1.0		123.7			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	110.0	0.8	0.8	6.6	0.9	0.9	0.9	0.9	0.9	1.0		123.7			
Initial Spares															
Total Proc Cost	110.0	0.8	0.8	6.6	0.9	0.9	0.9	0.9	0.9	1.0		123.7			
Flyaway U/C															
Wpn Sys Proc U/C															

DESCRIPTION: Information Systems (PACOM) encompasses non-tactical telecommunications requirements to support Army base operations and U.S. Military Command and Control (C2) requirements in the Pacific theater, including upgrade of fixed plant telephone systems in Korea and Japan. The upgrades of the Korea Telephone Network (KTN) and Japan Telephone Network (JTN) will modernize the Army telephone systems in the respective countries. The switch hardware and software will be upgraded to provide integrated voice and data capabilities, as well as to provide the added line capacity required to satisfy critical Korean warfighter missions.

JUSTIFICATION: The FY 00 funds will procure software and hardware upgrades for the Korean telephone switches. The FY 01 funds will procue software and hardware upgrades at the host switches in Korea. The upgrades will provide Integrated Services Digital Network (ISDN) capability for the five indicated JTN switches in conjunction with the Year 2000 upgrades that are being implemented at the sites. The upgrades will provide video services over a single integrated connection. Additionally, the upgraded switches will operate more efficiently.

(ID CODE A)

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	PROCUREN and Electro	IENT / 2 /		INFOR	em Nomenclature: RMATION SYSTEM (BB8900)			Weapon System	Туре:		oruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
	-	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Korean Telephone Network (KTN), And Telephone Network Switch Upgrade	А	829	VAR	829				896	VAR	VAR	884	VAR	VAF
Year 2K and ISDN Upgrade in Japan	Α				6584	7	VAR						
TOTAL		829			6584			896			884		
NOTE: The unit cost varies because it's based on the size differences of individual switches (300 - 4,000 line size) and also inflation factors.													

Ex	hibit P-5a, Budget Procureme	nt History a	nd Planning					Date:	February	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electr	ronics	Weapon Syst	ет Туре:		P-1 Line Item	Nomenclature INFORMA	e: TION SYSTEMS (PA	ACOM) (B	B8900)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Korean Telephone Network (KTN), And Telephone Network Switch Upgrade										
FY 98	GTE (LTLCS) or DSSMP	C/FP/OP	CECOM	Mar-00	Nov-99	VAR	VAR	YES		
FY 00	GTE (LTLCS) or DSSMP	C/FP/OP		Mar-01		VAR				
FY 01	GTE (LTLCS) or DSSMP	C/FP/OP			Nov-01	VAR			NO	
	GTE (LTLCS) OF DSSMP	C/FP/OP	CECOIVI	Iviai-02	NOV-02	VAK	VAR	TES	NO	
Year 2K and ISDN Upgrade in Japan										
FY 99	GTE (LTLCS)	C/FP/OP	СЕСОМ	Oct-98	Jan-99	7	VAR	YES		
	(= (= : = 0)				5 a 55	-				
I										
ı										

KTN = Korean Telephone Network

GTE, Needham Heights, MA ISDN = Integrated Services Digital Network

BCS = Batch Change Supplement

SALC=Sacramento Air Logistics Center, Sacramento, CA

EUSA = Eighth US Army

JTN = Japan Telephone Network BBN, Cambridge, MA

		Exhibit P-4	0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	<u> </u>				
OTHER P	ROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t				INFORMATION	SYSTEMS (MCA SU	PPORT) (BB1400)		
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty											·	
Gross Cost	39.0	9.5	5.6	6.1	5.0	5.0	5.0	5.2	5.5	5.6		91.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	39.0	9.5	5.6	6.1	5.0	5.0	5.0	5.2	5.5	5.6		91.5
Initial Spares												
Total Proc Cost	39.0	9.5	5.6	6.1	5.0	5.0	5.0	5.2	5.5	5.6		91.5
Flyaway U/C		•										•
Wpn Sys Proc U/C												

DESCRIPTION: The program provides state-of-the-art major information system equipment such as integrated voice/data switches; Tier II computers (i.e., common user, multiple-purpose assets supporting Army installations and/or organizations); voice/data switch expansions; common user LAN transport equipment; and basic telephone instruments. This equipment is to be installed in conjunction with Military Construction, Army (MCA) projects.

JUSTIFICATION: FY 00 and FY 01 funds will support information systems requirements associated with approved MCA projects. Funding is applied to specific projects based upon mission priority, timing of construction schedules, beneficial occupancy dates (BOD), and minimum lead time required for acquisition and installation of associated information system equipment. Funding supports regulatory requirements as outlined in AR 415-15 and other applicable U.S. Army Directives. These funds are essential to ensure that information systems are installed in sync with Corps of Engineer construction schedules. FY 00 funds will support IS requirements for the National Ground Intelligence Center. They will provide for a new telephone switch, telephones and LAN equipment for the project. Additional IS support will be provided for a remote switching unit for Fort Bragg in support of the whole barracks renewal program. The remaining funds will provide IS support for an additional sixty eight (68) approved MCA projects. FY01 funds will support IS requirements for two (2) new telephone switches at Fort Irwin in support of a Command and Control MCA project. The remaining funds will provide IS support to an additional seventy-one (71) approved MCA projects.

Exhibit P-5, Weapon		Appropriation/ Bu	dget Activity				n Nomenclature:	MCA SUPPORT)		Weapon System	Type:	Date:	uary 1999
OPA Cost Analysis		Communications				INFURIVIAT	(BB1400)	VICA SUPPORT)				reb	uary 1999
OPA	ID		FY 98			FY 99	(BB1400)			FY 00		FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Jost Liomonto	\top	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
MCA PROJECTS													
Telephone Switch Switch Upgrades Telephone System Engineering LAN Transport System Information System Upgrade Eisenhower Hall, Fort McNair (NDU)	A A A A A	933 630 380 800 293 2544	1 12 18 1 13 1	933 VAR VAR 800 VAR 2544	4500 175 208 800 419	1 12 10 1 8	4500 VAR VAR 800 VAR	2000 983 500 800 671	1 51 70 1 48	2000 VAR VAR 800 VAR	1093 424 800	48 72 1	100 VAF VAF 80 VAF
TOTAL		5580			6102			4954			5001		

	Exhibit P-5a, Budget Procureme	nt History o	nd Planning					Date:	February	1000
Appropriation / Budget Activity/Serial No:	Exhibit P-5a, Budget Procureme	Weapon Syst			P-1 Line Item	n Nomenclatur	۵.		February	1999
OTHER PROCUREMENT / 2 / Communication	tions and Electronics	Weapon Cyst	туро.				e. N SYSTEMS (MCA :	SUPPORT	T) (BB140(2)
Fauipment		Contract		1			,	Specs	Date	RFP Issu
WBS Cost Elements:	Contractor and Location	Method	Location of PCO	Award Date		QTY	Unit Cost	Avail	Revsn	Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Telephone Switch										
FY 98	HALIFAX/DSSMP	C/FP	ISEC-FREO	VAR	VAR	1	933	YES		
FY 99	GTE LTLCS/DSSMP		ISEC-FREO	VAR	VAR	1	4500	_		
FY 00	GTE LTLCS/DSSMP		ISEC-FREO	VAR	VAR	1	2000			
FY 01	GTE LTLCS/DSSMP		ISEC-FREO	VAR	VAR	2				
Switch Upgrades										
FY 98	VAR	OPTION**	ISEC-FREO	VAR	VAR	12	VAR	YES		
FY 99	TBS	OPTION**	ISEC-FREO	VAR	VAR	12	VAR	YES		
FY 00	TBS	OPTION**	ISEC-FREO	VAR	VAR	51	VAR	YES		
FY 01	TBS	OPTION**	ISEC-FREO	VAR	VAR	48	VAR	YES		
Telephone System										
FY 98	VAR	C/FP	ISEC-FREO	VAR	VAR	18	VAR	YES		
FY 99	TBS	C/FP	ISEC-FREO	VAR	VAR	10	VAR	YES		
FY 00	TBS	C/FP	ISEC-FREO	VAR	VAR	70	VAR	YES		
FY 01	TBS	C/FP	ISEC-FREO	VAR	VAR	72	VAR	YES		
Engineering										
FY 98	SAIC	C/FP	ISEC-FREO	VAR	VAR	1	800			
FY 99	GOVERNMENT/SAIC		ISEC-FREO	VAR	VAR	1	800			
FY 00	GOVERNMENT/SAIC		ISEC-FREO	VAR	VAR	1	800			
FY 01	GOVERNMENT/SAIC	C/FP	ISEC-FREO	VAR	VAR	1	800			

VAR: ISEC-CONUS supports numerous projects awarded by the Corps of Engineers (COE) throughout the FY. Unit costs vary by project.

^{*} Site Specific. Multiple contracts are awarded to multiple contractors throughout the year based on Corps of Engineers contracts, construction start dates, and Beneficial Occupancy Dates.

^{**} Option to existing C/FP contracts

E	xhibit P-5a, Budget Procureme	nt History a	and Planning					Date:	February ⁻	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Ele		Weapon Syst				Nomenclatur	e: N SYSTEMS (MCA :	CURRORT) (DD1400	n)
Equipment		Contract					,		Date	RFP Issue
WBS Cost Elements:	Contractor and Location	Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Revsn	Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
LAN Transport System										
FY 98	VAR	C/FP	ISEC-FREO	VAR	VAR	13	VAR	YES		
FY 99	TBS	C/FP	ISEC-FREO	VAR	VAR	8		YES		
FY 00	TBS	C/FP	ISEC-FREO	VAR	VAR	48				
FY 01	TBS	C/FP	ISEC-FREO	VAR	VAR	58				
Information System Upgrade Eisenhower Hall,Fort McNair (NDU)										
FY 98	Ellerby Beckett, Inc.	C/FP	COE	Nov-97	Apr-98	VAR	VAR	YES		

Site Specific. Multiple contracts are awarded to multiple contractors throughout the year based on Corps of Engineers contracts, construction start dates, and Beneficial Occupancy Dates.

VAR: ISEC-CONUS supports numerous projects awarded by the Corps of Engineers (COE) throughout the FY. Unit costs vary by project. Ellerby Beckett, Inc., Washington DC

		Exhibit P-4	0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:		-,			P-1 Item Nomenclat	ture:			1 0014419 1000		
OTHER P	ROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t				DEFENSE ME	ESSAGE SYSTEM ([DMS) (BU3770)		
Program Elements for Code B Is	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	181.3	6.3	8.8	16.7	18.5	11.8	11.9	11.9	0.0	0.0	0.0	267.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	181.3	6.3	8.8	16.7	18.5	11.8	11.9	11.9	0.0	0.0	0.0	267.1
Initial Spares												
Total Proc Cost	181.3	6.3	8.8	16.7	18.5	11.8	11.9	11.9	0.0	0.0	0.0	267.1
Flyaway U/C												•
Wpn Sys Proc U/C												•

DESCRIPTION: The Defense Message System (DMS) provides Y2K compliant regional, installation level and user interfaces to DOD record communications services Armywide. In Dec 1999, the program emphasis will transition from Sustaining Base to Tactical. The AUTODIN Mail Server (AMS) Desktop Interface to Automatic Digital Network (AUTODIN) Host (DINAH), Automated Special Security Information System Terminal (ASSIST) and other AUTODIN terminals are DMS Phase I actions. Phase I is completed. Phase II focuses on the full scale implementation of Consultative Committee on International Telegraphy and Telephony (CCITT) standardized X.400/X.500 messaging products and the phase down of the AUTODIN system. Implementation of DMS replaces AUTODIN. DMS will be the Army's primary messaging system. The new message system will feature: (1) A user operated service concept, (2) A single form of message service using a simplified message format, (3) Multilevel secure processing and (4) Automated local distribution via information transfer networks.

JUSTIFICATION: FY 00/01 funds will continue to procure the Tactical Messaging System (TMS) and DMS compliant components off the Air Force sponsored DMS Government Open System Interconnection Profile (GOSIP) contract. Once procured and fielded, these components, which consist of the User Agent (UA) e-mail software package and Subordinate Mail Transfer Agent (SMTA) SW/HW, will extend DMS to the battlefield in support of the Warfighter.

Exhibit P-5, Weapon		Appropriation/ Bu					m Nomenclature:			Weapon System	Туре:	Date:	
OPA Cost Analysis		OTHER F Communications	ROCUREM			DEFEN	SE MESSAGE SY (BU3770)	STEM (DMS)				Feb	ruary 1999
OPA	ID	Communications	FY 98	omeo Equipment		FY 99	(B03770)		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Engineer, Furnish, Install & Test DMS GOSIP Components to include: User Agent (UA) e-mail Subordinate Mail Transfer Agent (SMTA)	Α	8554	VAR*	VAR*	5633	VAR*	VAR*	2147	VAR*	VAR*	1534	VAR*	VAR
Tactical Messaging System (TMS)	Α				10141	VAR*	VAR*	16307	VAR*	VAR*	10297	VAR*	VAR
Secure Network Servers (SNS)	Α	215	5	43	903	21	43						
*Unit cost and quantities vary by configuration and site.													
TOTAL		8769			16677			18454			11831		

Exhibit	P-5a, Budget Procurement l	History a	nd Planning					Date:	February 1	999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics	, C	Weapon Syste			P-1 Line Item	Nomenclature DEFENSE M	e: MESSAGE SYSTEM	1 (DMS) (I	3U3770)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Engineer, Furnish, Install & Test DMS GOSIP Components*										
FY 98	Lockheed Martin	C/FP/Optn	USAF	Apr-98	VAR**	VAR	VAR	YES		
FY 99	Lockheed Martin	C/FP/Optn	USAF	Apr-99	VAR**	VAR	VAR	YES		
FY 00	Lockheed Martin	C/FP/Optn	USAF	Apr-00	VAR**	VAR	VAR	YES		
FY 01	Lockheed Martin	C/FP/Optn	USAF	Apr-01	VAR**	VAR	VAR	YES		
Tactical Messaging System (TMS)*										
FY 99	TBS	C/FP	CECOM	Feb-99	Sep-99	VAR	VAR	YES		
FY 00	TBS	C/FP	CECOM	Nov-99	Aug-00	VAR	VAR	YES		
FY 01	TBS	C/FP	CECOM	Nov-00	Aug-01	VAR	VAR	YES		
Secure Network Servers (SNS)										
FY 98	Wang Federal Systems	C/FP	NSA	May-98	VAR**	5	43	YES		
FY 99	Wang Federal Systems	C/FP	NSA	May-99	VAR**	21	43	YES		

GOSIP - Government Open System Interconnection Profile USAF - Gunter AF Base, Gunter, AL CA Lockheed Martin, Manassas, VA NSA - National Security Agency, Fort Meade, MD Wang Federal Systems, McLean, VA

*Multiple awards and delivery dates throughout the FY

								Date:				
		Exhibit P-4	10, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	-				
OTHER P	PROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				LOCAL AF	REA NETWORK (LAI	N) (BU4165)		
Program Elements for Code B Is	tems:			Code:	Other Related Prog	ram Elements:						
						,	1	1		1		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	129.6	17.7	10.4	10.0	100.0	90.0	140.2	175.0	122.3	128.7		923.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	129.6	17.7	10.4	10.0	100.0	90.0	140.2	175.0	122.3	128.7		923.8
Initial Spares												
Total Proc Cost	129.6	17.7	10.4	10.0	100.0	90.0	140.2	175.0	122.3	128.7		923.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Common User Installation Transport Networks (CUITN), fielded under this program, are part of the Installation Information Transfer Systems Improvement Program (IITSIP) designed to improve data communications transfer capabilities at Army installations. This program provides state-of-the-art, high-speed, common-user, data backbone networks and includes the hardware, software and interfaces to both site internal and external systems, networks and terminals, and turnkey approach to the implementation of these networks. The backbone network provides the capability for connections to site workstations, data processing installations, mainframes, and networks while providing access to gateways on the site and the Defense Information Systems Network (DISN) Wide Area Network (WAN) external to the site. The installation backbone CUITN program will ensure a smooth transition to the Army's long-term objective architecture. The Army has increased the number of computers in use at installations Army wide. Fielding of these systems and workstations coupled with changes to and fielding of interactive databases for Automated Information Systems, which require the movement of large amounts of data quickly, has placed the need for increased services on installation information transfer systems. Users, whether in garrison or deployed in support of CONUS-Centric Power Projection Strategy, require access to databases, Data Processing Centers, other networks on their home installation, and common user capabilities of the DISN. This expansion of data transfer has overloaded the installation data transfer capabilities. To satisfy installation data transfer requirements, it is necessary to upgrade the base communications infrastructure via replacement/upgrade of switches/cable facilities and procurement of CUITN backbone networks. The CUITN backbone will complement the Integrated Services Digital Network (ISDN) when this capability becomes available. The CUITN backbone provides the means for transferring information within the confines of the Army's posts, camps and stations and will be provided by a mix of resources, depending on the switching technology used at an installation, the installation's information transfer requirements, and availability of funds. The technical make-up of each backbone will be determined on a case-by-case basis and may have gateways to the DISN, tenant organizations (including tactical units), and the Open Systems Interconnection (OSI) protocols as identified by the Government OSI Profile (GOSIP).

Exhibit P-40C Budget	tem Justifi	cation Sheet	:	Date February 1999
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Item Nomenclature	LOCAL AREA NETWORK (LAN) (BU4165)
Program Elements for Code B Items	Code	Other Related Progr	ram Elements	
the borders of the United States to anywhere in the world JUSTIFICATION: FY00 funds will engineer, furnish and in (MER) level and eight (8)sites at the Initial Critical Capab FY 01 funds will engineer, furnish and install installation b continue/complete implementation at various sites. The completed in the prior year. LAN installations are critical to doctrines and the drawdown of Conventional Forces, Euronon-standard measures to satisfy the increasing data comcapability, improve connectivity, standardize transport net Support Module (ISM), Joint Computer-Aided Acquisition (GCSSA) and Distance Learning. FY 99 and out reflects	equirements zed, integra nsibility for in with little ad nstall installatility (ICC) le ackbone loc CUITN efforto support the pe. The Armunications works, and is and Logistics both project	s of deployed ted manner, the stallations in vance notice. The stallation backbon vel on the Installate area network is a continuing ever increamy is currently as requirement increase capates System (JCt management).	forces and their access thereby optimizing fundir the active, direct executive legal area networks at stallation Sequence List orks at five (5) sites at the ng project. Installations asing data transfer requiry using outdated system ts. High speed, backboracity for key Army system CALS), Combined Health and engineering effort	to home installation sustaining base systems; and (2) ng/personnel resources and maximizing the operational tion of the National Military Strategy to project forces beyond three (3) sites at the Minimum Essential Requirements (ISL), and continue/complete implementation at various sites. Where the MER level and five (5) sites at the ICC level on the ISL, and to be upgraded are determined by the number and locations rements attributable to actions supporting key Army wartime is, obsolete, overstressed telephone resouces, and expensive, the LANs will be installed to modernize site data transport in such as Defense Message System (DMS), Installation a Care System (CHCS), Global Combat Support System Army

through site number 43 on DA's Installation Sequence List. Funding for Initial Critical Capability (ICC), (first level of PPC4I connectivity) for FY00 and out will provide a

"bare-bones" backbone, i.e., a "starter kit" for the remaining sites 44-95 on DA's Installation Sequecne List.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	ROCUREN	IENT/2/			em Nomenclature: REA NETWORK			Weapon System	Туре:	Date: Febi	uary 1999
OPA	ID	Communications	FY98	onioo Equipment		FY99				FY00		FY01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Installation Backbone Local Area Network	Α	10355*	1	VAR	6413*	1	VAR	29597*	3	VAR	42532	5	VAF
Initial Critical Capability (ICC)	Α							64270	8	VAR	40961	5	VAF
Project Management Support	Α				1219			1513			1638		
Engineering Support	Α				2319			4638			4869		
TOTAL		10355			9951			100018			90000		
* NOTE: Site specific and costs vary at each site.													
\$9074 was reprogrammed for Y2K in FY98													

Ext	nibit P-5a, Budget Procurement I	History a	and Planning					Date:	February	1999
Appropriation / Budget Activity/Serial No:		Weapon Syst			P-1 Line Item	Nomenclature	e:			
OTHER PROCUREMENT / 2 / Communications and Electro	onics					LOCAL A	AREA NETWORK (LAN) (BU4	165)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	Date
Installation Backbone Local Area Network										
FY 98 * **	LUCENT, EDS, LOCKHEED, GTE	C/FP	CECOM/AF	Dec-97		1	VAR			
FY 99 * **	LUCENT, EDS, LOCKHEED, GTE	C/FP	CECOM/AF	Feb-99	Aug-99	1	VAR	YES		
FY 00 * **	LUCENT, EDS, LOCKHEED, GTE	C/FP	CECOM/AF	Jan-00	Aug-00	3	VAR	YES		
FY 01 * **	LUCENT, EDS, LOCKHEED, GTE	C/FP	CECOM/AF	Jan-01	Aug-01	5	VAR	YES	NO	
Initial Critical Capability (ICC)										
FY 00 * **	DSSMP	C/FP	CECOM	Mar-00	Dec-00	8	VAR	YES		
FY 01 * **	DSSMP	C/FP	CECOM	Mar-01	Dec-01	5			NO	
ı										

REMARKS: AT&T, Greensboro, NC

EDS = Electronic Data Systems Corp, Herdon, VA LORAL = Loral Federal Systems, Springfield, VA GTE = GTE Government System Corp, Needham, MA Lockheed = Lockheed Martin Federal Systems, Owego, NY

Lucent = Lucent Technologies, Greensboro, NC

DSSMP= Digital Switch Systems Modernization Program (19 Contracts)

^{*} Multiple awards and deliveries throughout the year.

^{**} Site specific/unique. Configuration varies by site.

								Date:				
		Exhibit P-4	0, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	!				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				PENTAGON INFOR	MATION MGT AND	TELECOM (BQ010	0)	
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
								1	1			
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	47.6	50.2	24.7	39.1	17.3	68.0	36.7	18.4	18.8	19.3	0.0	340.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	47.6	50.2	24.7	39.1	17.3	68.0	36.7	18.4	18.8	19.3	0.0	340.1
Initial Spares												
Total Proc Cost	47.6	50.2	24.7	39.1	17.3	68.0	36.7	18.4	18.8	19.3	0.0	340.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Pentagon Renovation Project is an on-going construction project directed by Office of the Secretary of Defense and implemented by a Resident Program Manager, Corps of Engineers (COE), and a Project Manager for Information Management & Telecommunications (PM, IM&T), U.S. Army Materiel Command (USAMC). PM, IM&T is responsible for relocating existing IM&T facilities while sustaining operations and implementing a new Pentagon IM&T physical and electronic infrastructure in concert with COE construction. Relocation includes moving the National Military Command Center (NMCC)/Service Operation centers, consolidating seven Telecommunications Control facilities, collocating 11 Automated Data Processing (ADP) facilities to two facilities, and consolidating 15 command and control, tactical, and administrative telephone switches to 8. The IM&T infrastructure includes the installation of an unclassified/classified backbone and a Network and Systems Management Center. The implementation of IM&T requirements is integral to each phase of the Pentagon Renovation construction program due to the synchronization of both programs. The Pentagon Renovation IM&T Project will provide modern integrated information and telecommunication capabilities to all levels of command in the Pentagon including OSD, the Joint Staff, the Army, Navy, Marine Corp, Air Force and Defense Agencies.

DESCRIPTION: This line includes funding for the Pentagon Telecommunications Center (PTC) and the Pentagon Renovation Information Management and Telecommunications Project. The Pentagon Telecommunications Center System (PTCS) provides, by Congressional mandate, General Service (GENSER) message origination and termination services for the headquarters of the military services, the Joint Chiefs of Staff, the Office of the Secretary of Defense, and many other DOD/non-DOD subscribers throughout the National Capital Region. In addition, the PTCS provides needed Automated Digital Network (AUTODIN) gateway access to civilian agencies, including the White House, Central Intelligence Agency and Departments of State, Energy, and Commerce. For the subscribers served, the system provides message services for command and control, crisis management, operational and administrative functions.

Exhibit P-40C Budget It	tem Justific	cation Sheet		Date February 1999
Appropriation / Budget Activity/Serial No.			P-1 Item Nomenclature	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				PENTAGON INFORMATION MGT AND TELECOM (BQ0100)
Program Elements for Code B Items	Code	Other Related Progr	am Elements	

JUSTIFICATION: PENTAGON RENOVATION IM&T: The Deputy Secretary of Defense has directed the continuation of the Pentagon Renovation Program by starting Wedge construction in FY98. A portion of the FY00 program will complete the telecomunications backbone infrastructure installation for Wedge 1 and begin procurement for Wedge 2. The largest portion of the FY01 program will be the purchase and installation of telecommunications infrastructure equipment in the Wedge 2 above ground area of the Pentagon as the Corps of Engineer's construction progresses through that area. Also planned for FY00 and 01 is the continuance of backbone infrastructure equipment purchases, such as data switches, routers, media and cable, and installation as Basement areas are renovated by the Corps of Engineers. FY00 and FY01 funds will continue procurement of hardware, such as servers and workstations, and management software to build out the Network and Systems Management Center, which manages the Unclassified and Classified Backbones for the Pentagon. Portions of the FY00 and 01 program will purchase equipment and cutover circuits in the Consolidated Technical Control Facility in the renovated area of the basement. Also in FY00 and FY01 the IM&T office will continue cutover of circuits for renovated area tenants to the Black and Red Command and Control Switches and the Optical Remote Module Administrative Switch.

JUSTIFICATION: PENTAGON TELECOMMUNICATIONS CENTER: FY00-FY01 funds procure Defense Message System (DMS) equipment platforms and electronic message delivery systems. Equipment platforms include: User Agents (UAS); Subordinate Message Transfer Agents (Smuts); Hardware (H/W) and Software (S/W); Certification Authority Work Stations (CAWs) H/W and S/W); Profile User Agents (PUAs); Bridge Head Servers; Multi-Functional Interpreters (MFIs) H/W and S/W); PCMCIA Card Readers; and FORTEZZA Cards. The objective is to provide secure and reliable message delivery to the customers' desktop. The rate at which DMS support technology evolves and DMS migration and deployment strategy is adopted, will dictate the types and quantities of electronic message delivery systems procured. DMS will be mandatory once the system is fully implemented. DMS will be the only system available for Army customers who require messaging services, and it is currently being developed as a building-wide network in conjunction with the Pentagon Renovation Project. Programmed funding will equip a user community, which includes the highest levels of the Army staff and key decision making personnel, with the tolls necessary to use DMS. Additionally, due to the ongoing Pentagon Renovation Project, the PTCS will be required to provide communication to those customers moving outside Pentagon during renovation.

Exhibit P-5, Weapon		Appropriation/ Bud	-				m Nomenclature:			Weapon System	Туре:	Date:	
OPA Cost Analysis		OTHER P Communications	ROCUREM			PENTA	GON INFORMATI					Febr	uary 1999
		Communications		onics Equipment		5)/ 00	TELECOM (BQC	100)	E)/ 00			E)/0/	
OPA	ID		FY 98			FY 99			FY 00			FY01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
PENTAGON RENOVATION IM&T		44007	*\	\/A.D.	5400	*\	\/A.D.	7007	*\	\/A.D	45000	*) (4.5	1/4
Jnclass/Class Backbone, Basement		11237	*VAR	VAR	5400	*VAR	VAR	7887	*VAR	VAR		*VAR	VA
Command/Ops Centers Equip/Install		4272	*VAR	VAR	1257	*VAR	VAR	1200	*VAR	VAR			VA
letwork & Sys Mgmt Ctr HW/SW, Install		4193	*VAR	VAR	2500	*VAR	VAR	400	*VAR	VAR		*VAR	VA
pgrade/Install/Cutover Primary Red Switch					300	*VAR	VAR	150	*VAR	VAR			VA
Consolidated Tech Cntrl Equip/Reterm		1953	*VAR	VAR	6100	*VAR	VAR	2100	*VAR	VAR		*VAR	VA
rigital Conferencing Switching System					750	*VAR	VAR	150	*VAR	VAR			
Optical Remote Module/Equip/Install		465			1000	*VAR	VAR	450	*VAR	VAR			VA
rimary Black Cmd/Cntrl Switch Equip/Cutover					300	*VAR	VAR	100	*VAR	VAR		*VAR	VA
Inclass/Class Backbone, Wedge 1		1800	*VAR	VAR	18732	*VAR	VAR	1299	*VAR	VAR			
Support Equip/Components Site Preparation IM&T Facilities		250	*VAR	VAR	250	*VAR	VAR	250	*VAR	VAR		*VAR	VA
Site Preparation IM&T Facilities					500	*VAR	VAR	250	*VAR	VAR			VA
Jnclass/Class Bkbone, Wedge 2								1000	*VAR	VAR	43884	*VAR	VAI
PTC													
Electronic Message Delivery Systems		540	*VAR	VAR	1999	*VAR	VAR	2020	*VAR	VAR	2118	*VAR	VAF
TOTAL		24710			39088			17256			68002		

Ex	hibit P-5a, Budget Procureme	nt History a	and Planning					Date:	February	1999
Appropriation / Budget Activity/Serial No:	o.tr ou, Buugott Toouronio.	Weapon Syst			P-1 Line Item	Nomenclature	e:			
OTHER PROCUREMENT / 2 / Communications and Electric Equipment	ronics				PEN	ITAGON INFO	RMATION MGT AN	ID TELEC	OM (BQ0	100)
VBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issu Date
iscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Jnclass/Class Backbone, Basement										
Y98	Bell Atlantic	C/FP	DSS-W	Nov-97	Dec-97	VAR	VAR	Yes		
	FEDSIM	MIPR	FEDSIM	Nov-96	Jan-97	VAR	VAR	Yes		
Y99	Bell Atlantic	C/FP	DSS-W	Nov-98	Dec-98	VAR	VAR	Yes		
Y00	Bell Atlantic	C/FP	DSS-W	Oct-99	Nov-99	VAR	VAR	Yes		
Y01	Bell Atlantic	C/FP	DSS-W	Oct-00	Nov-00	VAR	VAR	Yes		
Command/Ops Centers Equip/Install										
Y98	SRA	C/FP	Hanscom AFB	Nov-97	Jan-98	VAR	VAR	Yes		
	Horizon Technology	MIPR	Hanscom AFB	Dec-96	Mar-97	VAR	VAR	Yes		
FY99	SRA	C/FP	Gunter AFB	Jan-99	Feb-99	VAR	VAR	Yes		
FY00	SRA	C/FP	Gunter AFB	Jan-00	Feb-00	VAR	VAR	Yes		
FY01	SRA	C/FP	Gunter AFB	Jan-01	Feb-01	VAR	VAR	Yes		
Network & Sys Mgmt Ctr HW/SW, Install										
FY98	GMSI	IDIQ	DISA	Aug-98	Aug-98	VAR	VAR	Yes		
	FEDSIM	MIPR	FEDSIM	Mar-98	Apr-98	VAR	VAR	Yes		
	CPI	IDIQ	DISA	Mar-98		VAR	VAR	Yes		
FY99	FEDSIM	MIPR	FEDSIM	Jan-98	Mar-99	VAR	VAR	Yes		
	GMSI	IDIQ	DISA	Oct-98	Nov-98	VAR	VAR	Yes		
Y 99	FEDSIM	MIPR	FEDSIM	Nov-98	Jan-99	VAR	VAR	Yes		
Y00	FEDSIM	MIPR	FEDSIM	Nov-99	Dec-99	VAR	VAR	Yes		
FY01	FEDSIM	MIPR	FEDSIM	Nov-00	Dec-00	VAR	VAR	Yes		
Consolidated Tech Cntrl Equip/Reterm										
Y98	NET	C/FP	DISA	Jul-98	Aug-98	VAR	VAR	Yes		
	SAIC	Rgmts	Ft. Huachuca, AZ	Apr-98	Jun-98	VAR	VAR	Yes		
·Y99	NET	C/FP	DISA	Nov-98	Jan-99	VAR	VAR	Yes		
	DITCO	MIPR	DISA	Oct-98	Nov-98	VAR	VAR			

DISA = Defense Information Systems Agency

DSSW = Defense Supply Service-Washington

SM-ALC = Sacramento Air Logistics Center, Sacramento, CA

NET = Network Equipment Technologies, Rockville, MD

FEDSIM = Federal System Integration Mgmt Center

SAIC = Science Applications International Corp. SRA = Systems Research Applications

GMSI = Global Mgmt Systems Inc.

IMCEN = Information Mgmt Support Center-Army

SAM = Single Agency Manager

DITCO = Defense Info Technology Contracting Office

CSC = Computer Sciences Corporation

	Exhibit P-5a, Budget Procureme	nt History a	nd Planning					Date:	February ·	1999
Appropriation / Budget Activity/Serial No:		Weapon Syst	em Type:		P-1 Line Item	Nomenclature	:			
OTHER PROCUREMENT / 2 / Communications ar Equipment	nd Electronics				PEN	ITAGON INFO	RMATION MGT AN	ND TELEC	OM (BQ0	100)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
	SAIC	Rqmts	Ft. Huachuca, AZ	Jan-99	Mar-99	VAR	VAR	Yes		
	Telenex Corp	IDIQ	Ft. Monmouth, NJ	Nov-98	Jan-99	VAR	VAR	Yes		
FY00	NET	C/FP	DISA	Oct-99	Nov-99	VAR	VAR	Yes		
	SAIC	Rqmts	Ft. Huachuca, AZ	Oct-99	Nov-99	VAR	VAR	Yes		
FY01	NET	C/FP	DISA	Oct-00	Nov-00	VAR	VAR	Yes		
	SAIC	Rqmts	Ft. Huachuca, AZ	Oct-00	Nov-00	VAR	VAR	Yes		
Optical Remote Module/Equip/Install										
FY 98	CSC	IDIQ	Ft. Monmouth, NJ	Jan-98	Feb-98	VAR	VAR	Yes		
FY 99	Bell Atlantic	C/FP	DSS-W	Jan-99	Mar-99	VAR	VAR	Yes		
	CSC	IDIQ	Ft. Monmouth, NJ	Jan-99	Feb-99	VAR	VAR	Yes		
FY00	Bell Atlantic	C/FP	DSS-W	Oct-99	Nov-99	VAR	VAR	Yes		
	CSC	IDIQ	Ft. Monmouth, NJ	Jan-00	Feb-00	VAR	VAR	Yes		
FY01	Bell Atlantic	C/FP	DSS-W	Oct-00	Dec-00	VAR	VAR	Yes		
	csc	IDIQ	Ft. Monmouth, NJ	Jan-01	Feb-01	VAR	VAR	Yes		
Unclass/Class Backbone, Wedge 1										
FY98	GTE	C/FP/OP	DSS-W	Aug-98	Sep-98	VAR	VAR	Yes		
FY99	GTE	C/FP/OP	DSS-W	Oct-98	Nov-98	VAR	VAR	Yes		
FY00	GTE	C/FP/OP	DSS-W	Oct-99	Nov-99	VAR	VAR	Yes		
Support Equip/Components										
FY98	SAIC	C/FP	CECOM	Nov-97	Dec-97	VAR	VAR	Yes		
FY99	SAIC		CECOM	Nov-98		VAR	VAR	Yes		
FY00	SAIC	C/FP	CECOM	Nov-99	Dec-99	VAR	VAR	Yes		
FY01	SAIC	C/FP	CECOM	Nov-00		VAR	VAR	Yes		

REMARKS: DISA = Defense Information Systems Agency

DSSW = Defense Supply Service-Washington

SM-ALC = Sacramento Air Logistics Center, Sacramento, CA

NET = Network Equipment Technologies, Rockville, MD

FEDSIM = Federal System Integration Mgmt Center

SAIC = Science Applications International Corp.

SRA = Systems Research Applications

GMSI = Global Mgmt Systems Inc.

IMCEN = Information Mgmt Support Center-Army

SAM = Single Agency Manager

DITCO = Defense Info Technology Contracting Office

CSC = Computer Sciences Corporation

Ex	hibit P-5a, Budget Procureme	nt History a	and Planning					Date:	February ⁻	1999
Appropriation / Budget Activity/Serial No:		Weapon Syst	em Type:		P-1 Line Item	Nomenclature	э:			
OTHER PROCUREMENT / 2 / Communications and Electr Equipment	ronics				PEN	NTAGON INFO	RMATION MGT AN	ND TELEC	OM (BQ0	100)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Upgrade/Install Primary Red Switch										
FY99	Raytheon	C/FP	SM-ALC	Oct-98	Nov-98	VAR	VAR	Yes		
FY00	Raytheon	C/FP	SM-ALC	Oct-99	Nov-99	VAR	VAR	Yes		
FY01	Raytheon	C/FP	SM-ALC	Oct-00	Nov-00	VAR	VAR	Yes		
Digital Conferencing Switching System										
FY99	Bell Atlantic	C/FP	DSS-W	Nov-98	Dec-98	VAR	VAR	Yes		
FY00	Bell Atlantic	C/FP	DSS-W	Nov-99	Dec-99	VAR	VAR	Yes		
Primary Black Cmd/Cntrl Switching Equip										
FY99	Raytheon	C/FP	SM-ALC	Oct-98	Nov-98	VAR	VAR	Yes		
FY00	Raytheon	C/FP	SM-ALC	Oct-99	Nov-99	VAR	VAR	Yes		
FY01	Raytheon	C/FP	SM-ALC	Oct-00	Nov-00	VAR	VAR	Yes		
Site Preparation IM&T Facilities										
FY99	TBD 8(a)	IDIQ	DSS-W	Oct-98	Nov-98	VAR	VAR	Yes		
FY00	TBD 8(a)	IDIQ	DSS-W	Oct-99	Nov-99	VAR	VAR	Yes		
FY01	TBD 8(a)	IDIQ	DSS-W	Oct-00	Nov-00	VAR	VAR	Yes		
Unclass/Class Bkbone, Wedge 2										
FY00	GTE	C/FP/OP	DSS-W	Oct-99	Nov-99	VAR	VAR	Yes		
FY01	GTE	C/FP/OP		Oct-00	Nov-00	VAR	VAR	Yes		
Electronic Message Delivery Systems					12. 30					
FY98	Air Force	MIPR	SAM	Nov-97	Jan-98	VAR	VAR	Yes		
FY99	Air Force	MIPR	SAM	Dec-98		VAR	VAR	Yes		
FY00	Air Force	MIPR	SAM	Dec-99		VAR	VAR	Yes		
FY01	Air Force	MIPR	SAM		Feb-01	VAR	VAR			

REMARKS: DISA = Defense Information Systems Agency

DSSW = Defense Supply Service-Washington

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FEDSIM = Federal System Integration Mgmt Center

SAIC = Science Applications International Corp.

SRA = Systems Research Applications

GMSI = Global Mgmt Systems Inc.

IMCEN = Information Mgmt Support Center-Army

SAM = Single Agency Manager

DITCO = Defense Info Technology Contracting Office

CSC = Computer Sciences Corporation

		Exhibit P-	40, Budget	Item Justifi	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	-				
OTHER !	PROCUREMENT / 2 / Com	nmunications and El	lectronics Equipment	ŧ				FOREIGN COUNTE	ERINTELLIGENCE P	PROG (FCI) (BK528	i2)	
Program Elements for Code B I	Items:			Code:	Other Related Progr	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	11099.0	0.5	3.8	0.9	1.8	0.9	0.9	1.6	1.7	1.7	0.0	11112.8
Less PY Adv Proc						<u> </u>					<u> </u>	<u> </u>
Plus CY Adv Proc												1
Net Proc (P-1)	11099.0	0.5	3.8	0.9	1.8	0.9	0.9	1.6	1.7	1.7	0.0	11112.8
Initial Spares												<u> </u>
Total Proc Cost	11099.0	0.5	3.8	0.9	1.8	0.9	0.9	1.6	1.7	1.7	0.0	11112.8
Flyaway U/C												
Wpn Sys Proc U/C												<u> </u>
CLASSIFIED PRO	OGRAM. INFO	RMATION V	VILL BE PRO	OVIDED UP	'ON REQUES	5T.						

		Exhibit P-4	40, Budget i	ltem Justifi	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:					
OTHER P	PROCUREMENT / 2 / Com	nmunications and El	ectronics Equipment	t				GENERAL DEFF	ENSE INTELL PROG	3 (GDIP) (BD3900)		
Program Elements for Code B It	ems:			Code:	Other Related Progr	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												i
Gross Cost	324124.0	27.5	20.4	21.6	18.3	21.7	19.0	21.0	22.7	21.8	0.0	513982.0
Less PY Adv Proc		·		T	T							
Plus CY Adv Proc		' 										
Net Proc (P-1)	324124.0	27.5	20.4	21.6	18.3	21.7	19.0	21.0	22.7	21.8	0.0	513982.0
Initial Spares		·										
Total Proc Cost	324124.0	23.5	20.4	21.6	18.3	21.7	19.0	21.0	22.7	21.8	0.0	513982.0
Flyaway U/C		<u> </u>										<u> </u>
Wpn Sys Proc U/C				T	T							
CLASSIFIED PRO	GRAM. INFOF	RMATION V	VILL BE PRO	OVIDED UP	ON REQUES	Т.						
1												

		Evhibit D /	D Budget	Itom Justifia	nation Shoot			Date:	<u> </u>		<u> </u>	
		EXHIBIT P-4	o, Buager	item Justini	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:	-				
OTHER P	PROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t				ASAS - MOD	ULES (TIARA) BLO	CK II (KA4400)		
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
				А								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	439.0	13.8	22.6	30.8	56.5	70.6	51.0	66.4	68.2	53.1	222.0	1094.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	439.0	13.8	22.6	30.8	56.5	70.6	51.0	66.4	68.2	53.1	222.0	1094.0
Initial Spares	19.2	0.6	1.0		0.7	0.8	0.8	0.8	1.1			24.9
Total Proc Cost	458.2	14.4	23.6	30.8	57.2	71.4	51.8	67.2	69.3	53.1	222.0	1118.9
Flyaway U/C												
Wpn Sys Proc U/C												<u> </u>

(U) DESCRIPTION: The All Source Analysis System (ASAS) provides US Army commanders at echelons above corps through battalion a standard all source intelligence processing/reporting system and provides the means for gaining a timely and comprehensive understanding of Opposing Force (OPFOR) deployments, capabilities, and potential courses of action. The system interfaces with selected national, joint, and theater Intelligence assets, adjacent/higher/lower military intelligence processors and sensors, Army Battle Command System (ABCS), and organic deployed Intelligence/Electronic Warfare (IEW) teams and assets. The ASAS also is a user of terrain and weather data. The ASAS system uses standard joint and Army protocols and message formats to interface with forward deployed sensor/teams, intelligence processors and joint/national/Army C3I systems.

In March 1994, the Vice Chief of Staff, Army directed that an accelerated fielding of the ASAS capability across the force (including all Army Military Intelligence units and National Guard Enhanced Readiness Brigades) be accomplished by FY99. This accelerated fielding, called ASAS-Extended, is being accomplished by issuing ASAS software operating on Non-Developmental Item (NDI) commercial off-the-shelf (COTS) Common Hardware/ Software (CHS-2) to provide an ASAS capability to units not receiving the 12 previously procured ASAS Block I. ASAS-Extended is based on a modular approach which allows for incremental enhancements of ASAS capabilities using the fielded ASAS baseline and by leveraging the traditional acquisition successes of ASAS Block I.

(U) JUSTIFICATION: FY00 funding supports the initial procurement and fielding of the ASAS Block II Remote Workstation to six divisions and two Corps. FY01 funding will continue the Remote Workstation procurement and fielding.

IDENTIFICATION CODE: A

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	PROCUREM and Electro	IENT/2/		ASAS	em Nomenclature: - MODULES (TIAF (K28801)	RA) BLOCK II		Weapon System	Туре:		ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
ASAS-Extended Systems and Modules	Α	1284	6	214	856	4	214						
ASAS Hardware Modules	Α	12623	*	VAR	16745	*	VAR	35254	*	VAR	49197	*	VAF
Project Management Administration		1250			1288			1400			1479		
Engineering Support		1700			1733			2140			2250		
Fielding		2478			6800			11000			10780		
Interim Contractor Support		3262			3360			6720			6922		
TOTAL * Cost and composition of ASAS unit sets vary because of unit mission, echelon assigned and hardware module replaced.		22597			30782			56514			70628		

t P-5a. Budget Procurement	: History a	ınd Planning					Date:	February ⁻	1999
				P-1 Line Item	Nomenclatur	e:			
					ASAS - MC	DDULES (TIARA) BI	LOCK II (F	(28801)	
Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
	and Type			Delivery	Each	\$000	Now?	Avail	
•									N/A
GTE Taunton, MA	C/Option	CECOM	Nov-98	Jun-99	8	60	N/A	N/A	N/A
CMI Woodland Hills, CA	CP/AF	ARI	Nov-97	Jun-98	6	94	N/A	N/A	N/A
•					4				N/A
om recaland rine, er	0.7	/ · · · <u>-</u>	1101 00	Guii GG		0.	,, .	,,,	14//
EWA, Fairmont, WV		CECOM			*	VAR	Yes	N/A	N/A
GTE Taunton, MA	C/Option	CECOM	Nov-97	May-98	*	VAR	N/A	N/A	N/A
GTE Taunton, MA					*	VAR		N/A	N/A
EWA, Fairmont, WV	FFP	CECOM	Nov-98	Jun-99	*	VAR	Yes	N/A	N/A
GTE Taunton, MA	C/Option	СЕСОМ	Nov-99	Mar-00	*	VAR	N/A	N/A	N/A
GTE Taunton, MA	C/Option	СЕСОМ	Nov-00	Mar-01	*	VAR	N/A	N/A	N/A
1	Contractor and Location GTE Taunton, MA GTE Taunton, MA CMI Woodland Hills, CA CMI Woodland Hills, CA EWA, Fairmont, WV GTE Taunton, MA EWA, Fairmont, WV GTE Taunton, MA	Contractor and Location Contract Method and Type GTE Taunton, MA GTE Taunton, MA C/Option CMI Woodland Hills, CA CMI Woodland Hills, CA CMI Woodland Hills, CA CMI Woodland Hills, CA CMI Woodland Hills, CA CMI Woodland Hills, CA CP/AF EWA, Fairmont, WV GTE Taunton, MA C/Option GTE Taunton, MA EWA, Fairmont, WV GTE Taunton, MA C/Option	GTE Taunton, MA GTE Taunton, MA C/Option CECOM CCOM CHIWoodland Hills, CA CMI Woodland Hills, CA CP/AF ARL EWA, Fairmont, WV GTE Taunton, MA C/Option CECOM GTE Taunton, MA C/Option CECOM GTE Taunton, MA C/Option CECOM CCOM CCOM CCOM CCOM CCOM CCOM CCO	Contractor and Location Contract Method and Type GTE Taunton, MA GTE Taunton, MA C/Option CECOM CECOM Nov-97 CECOM CECOM Nov-98 CMI Woodland Hills, CA CMI Woodland Hills, CA CMI Woodland Hills, CA CMI Woodland Hills, CA CP/AF CMI Woodland Hills, CA CP/AF CMI Woodland Hills, CA CP/AF CP/AF CECOM Nov-98 EWA, Fairmont, WV GTE Taunton, MA C/Option CECOM Nov-97 GTE Taunton, MA C/Option CECOM Nov-98 GTE Taunton, MA C/Option CECOM Nov-98 GTE Taunton, MA C/Option CECOM Nov-98 GTE Taunton, MA C/Option CECOM Nov-98 Nov-99	Weapon System Type: Contract Method and Type Contract Method and Type GTE Taunton, MA GTE Taunton, MA C/Option CECOM CECOM CECOM CECOM CECOM CECOM CECOM CECOM CECOM CECOM CECOM CECOM CECOM CECOM Nov-97 Jun-98 Jun-99 CMI Woodland Hills, CA CP/AF CMI Woodland Hills, CA CP/AF CP/AF CECOM CECOM CECOM Nov-97 May-98 GTE Taunton, MA C/Option CECOM CECOM Nov-97 May-98 GTE Taunton, MA C/Option CECOM CECOM Nov-97 May-98 GTE Taunton, MA C/Option CECOM Nov-98 Jun-99 GTE Taunton, MA C/Option CECOM Nov-98 CECOM Nov-98 CECOM Nov-98 CECOM Nov-98 CECOM Nov-99 May-99 GTE Taunton, MA C/Option CECOM Nov-98 CECOM Nov-99 May-99 GTE Taunton, MA C/Option CECOM Nov-98 Nov-99 May-99 GTE Taunton, MA C/Option CECOM Nov-99 May-99 May-99 CECOM Nov-99 May-99 May-99 CECOM Nov-99 May-99 May-99 CECOM Nov-99 May-99 May-99 CECOM Nov-99 May-99 May-99 CECOM Nov-99 May-99 May-99 CECOM Nov-99 May-99 May-99 May-99 CECOM Nov-99 May-99 May-99	Weapon System Type: Contract Method and Type Contract Method and Type Contract Method and Type Contract Method and Type Contract Method and Type Contract Method and Type Contract Method And Typ	Weapon System Type: Contractor and Location Contract Method and Type CONTROL Method and Type GTE Taunton, MA GTE Taunton, MA CMI Woodland Hills, CA CMI Woodland Hills,	## P-5a, Budget Procurement History and Planning Weapon System Type:	P-5a, Budget Procurement History and Planning P-1 Line Item Nomenclature: ASAS - MODULES (TIARA) BLOCK II (K2801)

REMARKS:

All equipment is NDI/COTS purchased through PM CHS or other Army Activities.

^{*} Equipment quantity and cost covers several workstation modules, components and communications interfaces.

		Exhibit P-4	IO. Budaet	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:			Tebluary 1999		
OTHER F	PROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				JTT/	CIBS-M (TIARA) (V2	9600)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	100		54	50	165	183	42	40	120	82		N/A
Gross Cost	0.0	20.8	13.8	10.3	24.3	27.0	12.1	12.6	15.1	13.2	0.0	149.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	20.8	13.8	10.3	24.3	27.0	12.1	12.6	15.1	13.2	0.0	149.2
Initial Spares		2.7	0.7	4.5								7.9
Total Proc Cost	0.0	23.5	14.5	14.8	24.3	27.0	12.1	12.6	15.1	13.2	0.0	157.1
Flyaway U/C			0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0		·
Wpn Sys Proc U/C			.3	.3	.2	.2	.3	.3	0.0	0.0		

The Joint Tactical Terminal (JTT) are a family of special application UHF Line of Sight (LOS)/Satellite Communications (SATCOM) Secure Intelligence dissemination reporting systems for deployment with tactical units. The system uses airborne and satellite relay platforms to provide robust, reliable jam resistant targeting and intelligence data and voice connectivity throughout the battlefield. Data from various sensors and HUMINT sources are transmitted over the Integrated Broadcast Service (IBS). Specific IBS transmission networks include the Tactical/Reconnaissance Exchange System (TRIXS) network, the Tactical Information Broadcast Service (TIBS), the Tactical Receive equipment and related Applications Data Dissemination System (TDDS) and Tactical Data Information eXchange System (TADIXS) networks. The IBS is the worldwide DOD standard Network for transmitting tactical and strategic intelligence and battle management data. The JTT is the next generation DOD standard system which provides additional channels. The JTT terminals deliver critical, time sensitive battlefield intelligence and targeting information at collateral and system high security levels in near real time (NRT) to the worldwide tactical commanders and intelligence nodes at all echelons. The terminals provide direct, secure and dedicated connectivity/interoperability for rapid targeting, threat avoidance, battle management, mission planning and sensor cueing. The equipment can be mounted in fixed and rotary wing aircraft as well as fixed or mobile ground platforms. The JTT facilitates reaction inside the enemy decision cycle and is necessary to winning the information war on the battlefield. The JTT Briefcase(Reduced Size)(RS) effort will be awarded in FY 99 to satisfy the US Army Special Operations Command JTT requirements for a Manpack variant that will weigh 35 lbs or less. This is in compliance with the JTT ORD objective requirement. JUSTIFICATION: FY00/01 quantities include receive only and full duplex (receive/transmit) variants based on u

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	PROCUREN	IENT / 2 /			em Nomenclature: Γ/CIBS-M (TIARA)	(V29600)		Weapon System	Туре:	Date: Feb	ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
HARDWARE JTT (T/R) Transmits and Receives JTT (R ONLY) Receives Only JTT (OTHER SERVICE RQMTS) JTT (RS) Receive only	В	8624 1570	44 10 41	196 157	5720 1130	40 10 59	143 113	16016 4294 1500	112 38 50 15	113	5989	102 53 45 28	113
SUPPORT ECOs DATA SYSTEM TEST & EVAL		1627 194 212			1880 200 72			659 200 245			1504 245 255		
ENGINEERING SUPPORT IN-HOUSE CONTRACTOR		419 408			312 390			236 345			255 438		
Subtotal - ENGINEERING SUPPORT		827			702			581			693		
FIELDING* PROGRAM MGMT (ADMIN)		162 592			8 600			142 625			224 650		
TOTAL		13808			10312			24262			26946		
Other services quantities are identified in order to load P21 production delivery data													
* Fielding in FY 98/99 relate to CTT only.													

								Date:		
	Exhibit P-5a, Budget Procurem	ent History an	nd Planning						February	1999
Appropriation / Budget Activity/Serial No:		Weapon System T	уре:		P-1 Line Item	Nomenclature	9:			
OTHER PROCUREMENT / 2 / Communications ar	nd Electronics					JT	T/CIBS-M (TIARA) (V29600)		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issu
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	Date
JTT (T/R)										
	RAYTHEON SYSTEMS									
FY98	ST PETE, FL	C/FFP	СЕСОМ	Apr-98	Mar-00	44	196	YES		
FY99	RAYTHEON SYSTEMS	C/FFP/Opt	СЕСОМ	Jun-99	Nov-00	40	143			
FY00	RAYTHEON SYSTEMS	C/FFP/Opt	CECOM	Jun-00	Feb 01	112	143	YES		
FY01	RAYTHEON SYSTEMS	C/FFP/Opt	CECOM	Jan 01	Jan 02	102	143	YES		
JTT R ONLY										
	RAYTHEON SYSTEMS									
FY98	ST PETE, FL	C/FFP	CECOM	Apr-98	Mar-00	10	157	YES		
FY99	RAYTHEON SYSTEMS	C/FFP/Opt	CECOM	Jun-99	Nov-00	10	113	YES		
FY00	RAYTHEON SYSTEMS	C/FFP/Opt	СЕСОМ	Jun-00	Feb 01	38	113	YES		
FY01	RAYTHEON SYSTEMS	C/FFP/Opt	CECOM	Jan 01	Jan 02	53	113	YES		
JTT (RS)										
FY 00	RAYTHEON SYSTEMS	C/FFP	CECOM	Jun-00	Apr 01	15	100	YES		
FY 01	RAYTHEON STSTEMS	C/FFP/Opy	CECOM	JAN 01	JAN 02	28	100	_		
OTHER SERVICES										
FY98	RAYTHEON SYSTEMS	C/FFP	CECOM	Apr-98	Apr-00	41	196	YES		
FY99	RAYTHEON SYSTEMS	C/FFP/Opt	СЕСОМ	Jun-99	Set 01	59	143			
FY00	RAYTHEON SYSTEMS	C/FFP/Opt	CECOM	JUN 00	Apr 01	50	143	YES		
FY01	RAYTHEON SYSTEMS	C/FFP/Opt	СЕСОМ	JAN 01	Jan 02	45	143			
REMARKS: "										

							P-1	Item N	Nome	enclati	ure:												Date	e:							
FY 00 / 01 BUDGET PRO	DUC	TION SC	HED	ULE								JTT/CI	BS-M	1 (TIAF	RA) (V	29600	0)										Febr	uary 1	999		
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JTT (T/R)		FY96	Α	89	0	89																						5	10	15	59
,		FY98	Α	44	0	44							Α																		44
		FY99	Α	40	0	40																					Α				40
		FY00	Α	112	0	112																									112
		FY01	Α	102	0	102																									102
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JTT (R ONLY)		FY96	Α	11	0	11																			ı						11
,		FY98	Α	10	0	10							Α												1						10
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JTT (OTHER SERVICE RQMTS)		FY97	O/S	32	0	32																									32
,		FY98	O/S	41	0	41							Α																		41
		FY99	O/S	59	0	59																			ı		Α				59
		FY00	O/S	50	0	50																									50
		FY01	O/S	45	0	45																									45
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JTT (RS)		FY99	Α	10	0	10																					Α				10
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JT	T (T/R)		FY96	Α	89	0	59	15	17	12	15																					30
			FY98	Α	44	0	44						8	8	8	8	7	5														
			FY99	Α	40	0	40														8	8	8	8	8							
			FY00	Α	112	0	112									Α								11	10	10	10	10	10	10	10	31
			FY01	Α	102	0	102																Α									102
JT.	T (R ONLY)		FY96	Α	11	0	11		3	3	3	2																				
			FY98	Α	10	0	10							2	2	2	2	2														
	_		FY99	Α	10	0	10												2	2	2	2	2									
			FY00	Α	38	0	38									Α				Î					4	4	4	4	4	4	5	9
			FY01	Α	53	0	53																Α									53
JTT (C	OTHER SERVICE RQMTS)		FY96	O/S	32	0	32				2	18	12																			
	•		FY98	O/S	41	0	41							10	10	10	11															
			FY99	O/S	59	0	59												10	10	10	10	10	9								
			FY00	O/S	50	0	50									Α				Î					6	6	6	6	6	6	5	9
			FY01	O/S	45	0	45																Α									45
JTT	(RS)																															
			FY00	Α	15	0	15									Α										5	2	2	2	2	2	
			FY01	Α	28	0	28																Α									28
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		FY99	O/S	59	59																										
		FY00	O/S	50	41	9	6	3																							
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		Exhibit P-4	40, Budget	ltem Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	erial No:					P-1 Item Nomencla	ture:	-				
OTHER P	ROCUREMENT / 2 / Con	nmunications and El	lectronics Equipmen	t				IEW - GND BASE	COMMON SENSOR	S (TIARA) (BZ7326))	
Program Elements for Code B It	ems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	103.9	35.6	0.0	12.0	0.0	0.0	0.0	34.6	134.9	101.8	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	103.9	35.6	0.0	12.0	0.0	0.0	0.0	34.6	134.9	101.8	Cont	Cont
Initial Spares	13.0	7.2		5.7							Cont	Cont
Total Proc Cost	116.9	42.8	0.0	17.7	0.0	0.0	0.0	34.6	134.9	101.8	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Ground Base Common Sensor (GBCS) provides the Commanders of Army Divisions, Armored Cavalry Regiments and Separate Brigades with an organic capability to listen to, precisely locate for hard kill or order-of-battle resolution, or render threat command and control and fire control communications nets ineffective. GBCS provides capability to identify and precisely locate threat counter/mortar, counter/battery and ground surveillance radar emissions. The system is designed to ensure transportability, prime mover maintainability, and over terrain mobility equal to that of the supported divisions, regiments and brigades. GBCS-Light is in a High Mobility Multipurpose Wheeled Vehicle (HMMWV) for deployment with first to fight, Light, Airborne and Air Assault elements in support of contingency operations.

GBCS exploits or eliminates, at the Commander's discretion, the latest most modern types of hostile modulations including modern radar and Low Probability of Intercept (LPI) communications, and transmissions techniques at the key time and place on the battlefield. When deployed in conjunction with Advanced QUICKFIX, it's heliborne counterpart, GBCS provides for targeting accuracy sufficient for first round hit by organic artillery. GBCS mission equipment is also being configured in a Light Armored Vehicle (LAV) for use by the United States Marine Corps.

The U.S. Army decided the objective GBCS-L systems were not ready to enter IOT&E. The Army has decided to restructure the former IEWCS program, essentially making a "right turn" from IEWCS into a new program to be called Prophet. Prophet will consist of air and ground platforms and a ground control element. FY99 will be the transition year leading to a Special In Process Review (SIPR) in 3QFY99 for continuation of the EMD phase. Funding FY03 and beyond supports the restructured Prophet program.

JUSTIFICATION: There are no funds in FY00/FY01.

Exhibit P-5, Weapon		Appropriation/ Bu OTHER I	udget Activity				m Nomenclature: ND BASE COMM			Weapon System	Type:	Date: Feb	ruary 1999
OPA Cost Analysis				onics Equipment			(TIARA) (BZ73						,
OPA	ID		FY 98		,	FY 99	(, (Ī	FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCo
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		\$000	Lacii	\$000	4000	Lacii	\$000	ΨΟΟΟ	Lacii	φοσο	\$000	Lacii	<u> </u>
SUPPORT: ECO'S SW CHANGES HW CHANGES DATA SYS TEST & EVAL					3750 5839 350 600								
ENGINEERING SPT: IN-HOUSE CONTRACT FIELDING NTERIM CONTRACT SUPPORT					1500								
FOTAL					12039								

Fyhib	it P-5a, Budget Procuremen	t History a	and Planning					Date:	February	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon Syst				Nomenclatur	e: E COMMON SENS			
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
GBCS-L HARDWARE										
FY96 FY97	Lockheed/Martin, Owego, NY Lockheed/Martin, Owego, NY	C/FP Option	CECOM	Jan-96 Nov-96	Jan-99 Apr-00	4 2	9561 8908	Yes Yes		
REMARKS: FY96 initiated competitive production. FY97 completes Limited Procuremen	t requirements with the purchase of two	o systems.								

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		Exhibit P-4	I0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	<u> </u>				
OTHER F	PROCUREMENT / 2 / Com	nmunications and El	ectronics Equipmen	nt				TACTICAL UNI	MANNED AERIAL VE	HICLE (BA0330)		
Program Elements for Code B I	Items:			Code:	Other Related Prog	ram Elements:						
			1			1	1	1	1	1		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty						8	8	8	8	6		38
Gross Cost	0.0	0.0	0.0	0.0	45.9	61.1	71.6	54.0	56.9	52.9	0.0	342.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	45.9	61.1	71.6	54.0	56.9	52.9	0.0	342.2
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	45.9	61.1	71.6	54.0	56.9	52.9	0.0	342.2
Flyaway U/C						6.6	6.6	6.6	6.6	6.6		33.0
Wpn Sys Proc U/C		·				6.7	6.7	6.7	6.7	6.7		33.5

DESCRIPTION: The Tactical Unmanned Aerial Vehicle (TUAV) provides the Army brigade and battalion levels with dedicated Reconnaissance, Surveillance and Target Acquisition (RSTA) and Combat Assessment (CA). The TUAV air vehicle objective is to fly up to 200 kilometers and remain on station for up to four hours. The baseline payload is EO/IR. Procurement of systems including attrition air vehicles will commence in FY 2001. The TUAV system consists of multiple air vehicles, Highly Mobile Multi-Wheeled Vehicles (HMMWV) with shelters, trailers, 2 ground control stations, 2 ground data terminals and a Mobile Maintenance Facility capable of supporting up to three systems. Flyaway and Weapon System procurement unit cost is averaged across all production years and does not include attrition air vehicles. The program Acquisition Strategy for this program calls for an LRIP in FY00 to support an Initial Operational Test and Evaluation (IOT&E). Consistent with current funding policy, LRIP units for IOT&E must be funded with RDT&E dollars. Consequently, the use of FY00 procurement funds are not covered in this P-Form.

JUSTIFICATION: These FY00 funds need to be transferred to RDT&E funds under Program Element 0305204A, Project D114 to acquire TUAV LRIP systems for IOT&E. The FY01 funds will procure TUAV systems for initial fielding and the training base.

Exhibit P-5, Weapon OPA Cost Analysis			PROCURENT and Electr			TACTICA	em Nomenclature: AL UNMANNED AI (BA0330)			Weapon System	Туре:		ruary 1999
OPA	ID	T / IO :	FY 98		T / 10	FY 99		T / 10	FY 00	I	T / 10 :	FY 01	11.20
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
TUAV Systems (4 Air Vehicle/System)	В	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Recurring Costs: Air Vehicle Launch and Recovery Equipment Air Vehicle Trailer Ground Control Station Ground Control Terminal Remote Video Terminal Modular Maintenance Facility System Integration & Assembly											15031 642 1028 10405 3986 564 434 3164		376
Recurring Engineering Quality Control Recurring System Manufacturing Subtotal: Contractor System Engineering & Mgmt Training Equipment & Services System Test and Acceptance Engineering Change Orders Recurring TUAV System Costs Total:											3077 3049 41380 3596 1250 1816 344 48386	10	4138
Government Furnished Equipment (HMMWVs, trailers, generators, radios, etc.)											3744		
Attrition Air Vehicles											2632	7	376
Initial Fielding Support											3927		
Program Management											2373		
Total System Cost											61062		
Note: The quantity in the RDAISA database must be revised to reflect the correct quantity as depicted on this P-5.													

Exhibi	t P-5a, Budget Procureme	ent History ar	nd Planning					Date:	February ²	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	-	Weapon System			P-1 Line Item		e: NMANNED AERIAL	VEHICLE	(BA0330))
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First		Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
TACTICAL UNMANNED AERIAL VEHICLE	To Be Selected	Option/FPIF	AMCOM	Apr-01	Mar-02	10	4138	Yes	NA	NA
REMARKS: The current acquisition strated										

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		EXIIIDIL F-4	o, budget	item Justini	Lation Sheet					February 1999		
Appropriation / Budget Activity/S						P-1 Item Nomencla	ture:					
OTHER F	PROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				JOINT ST	'ARS (ARMY) (TIAR	A) (BA1080)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	45	16	20	18	12	10						121
Gross Cost	266.8	84.7	89.3	86.9	82.2	57.8	13.5	4.2	14.2	26.9	203.8	930.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	266.8	84.7	89.3	86.9	82.2	57.8	13.5	4.2	14.2	26.9	0.0	726.5
Initial Spares	13.0	8.6	6.1	8.7	6.3	6.2	6.9	4.4				60.2
Total Proc Cost	279.8	93.3	95.4	95.6	88.5	64.0	20.4	8.6	14.2	26.9	0.0	786.7
Flyaway U/C	4.5	4.3	3.7	3.9	4.2	4.3						
Wpn Sys Proc U/C	6.2	5.9	4.0	4.3	4.8	4.9						

DESCRIPTION: The Joint Surveillance Target Attack Radar System (Joint STARS) is a surveillance battle management and targeting system. It is a Joint Army and Air Force program with the Air Force as the executive Service. The Joint STARS Radar is an airborne multimodal radar system incorporating an electronically scanned antenna and combines both Moving and Fixed Target indicator (MTI/FTI) and Synthetic Aperture Radar (SAR) functions. The radar is carried aboard a modified Joint STARS E-8 aircraft and broadcasts radar data to the Army Common Ground Station (CGS). In addition to Joint STARS data, the CGS will receive and process Unmanned Aerial Vehicle (UAV) and Commanders Tactical Terminal (CTT) data. The CGS is a tactical data processing and evaluation center that links into the Army's Battle Command System (ABCS). The CGS will assist commanders in determining battle management and targeting. The CGS integrates signal, imagery and other intelligence processing into a single ground station, resulting in enhanced battle management capabilities. The Joint STARS will fufil an urgent air-land battlefield deficiency by providing an Army/Air Force battlefield sensor and attack control capability designed to detect, locate, track, classify and assist in attacking both moving and stationary ground targets beyond the Foward Line of Troops (FLOT).

The Joint STARS CGS has repeatedly provided high value targeting and intelligence data to Field Commanders during contingencies (Operation Joint Endeavor), as well as during standard mission operations of fielded units. Joint STARS is a proven force multiplier, fielded to high priority units for worldwide deployment

JUSTIFICATION: The FY00-01 funds procure 22 CGS units (12 in FY00 and 10 in FY01) to be fielded across all echelons. This funding also provides for continuing implementation of the approved P3I program and incorporation of approved modifications into existing systems.

Exhibit P-5, Weapon		Appropriation/ But OTHER P	dget Activity				m Nomenclature: ARS (ARMY) (TI	ARA) (BA1080)		Weapon System	Type:	Date: Febi	uary 1999
OPA Cost Analysis		Communications					, (, (=::::::)					,
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
HARDWARE COMMON GROUND STATION (CGS) LRIP COMMON GROUND STATION (CGS) Full Rate Production (FRP)		18112	4	4528	42180 21090	12 6	3515 3515	46980	12	3915	38250	10	3825
MGSM UPGRADE TO CGS CAPABILITY Dismounted Work Station (DWS)		25520	16	1595	2000	4	500						
SUBTOTAL		43632			65270			46980			38250		
SUPPORT													
P3I Installation ECO'S DATA		38476 400			1750 14100 208			6000 25237			8550 6893		
SYSTEM TEST AND EVAL SUBTOTAL		1089			1857			0400=			45440		
ENGINEERING SUPPORT		39965			17915			31237			15443		
IN HOUSE PRIME CONTRACTOR		552 2987			446 430			356 440			350 500		
SUBTOTAL		3539			876			796			850		
FIELDING PROGRAM MANAGEMENT (ADMIN)		1034 1106			1673 1161			1800 1363			1815 1415		
TOTAL		89276			86895			82176			57773		
The quantities on the P40 track to the RDAISA Data Base. However, the corrected quantities of 20 in FY98 and 18 in FY99 had been submitted prior to this cycle.													

Exh	nibit P-5a, Budget Procureme	nt Historv a	nd Planning					Date:	February ⁻	1999
Appropriation / Budget Activity/Serial No:	ou, _uugo:::ou.ou.o	Weapon Syste			P-1 Line Item	Nomenclature	ə:			
OTHER PROCUREMENT / 2 / Communications and Electro	onics					JOINT S	TARS (ARMY) (TIA	RA) (BA1	080)	
WBS Cost Elements:	Contractor and Location	Contract	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs	Date	RFP Issu
	Contractor and Eccation	Method	Location of PCO	Award Date				Avail	Revsn	Date
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FY 98	Motorola, Scottsdale, AZ	C/FFP/Opt			Sep-99	4	4528			
FY 99	Motorola, Scottsdale, AZ	C/FFP/Opt			Dec-99	12				
FY 99	Motorola, Scottsdale, AZ	C/FFP/Opt		Jun-99		6	3515			
FY 00	Motorola, Scottsdale, AZ	C/FFP/Opt		Dec-99		12				
FY 01	Motorola, Scottsdale, AZ	C/FFP/Opt	CECOM	Dec-00	Dec-01	10	3825	YES		
MGSM UPGRADE TO CGS CAPABILITY										
FY 98	Motorola, Scottsdale, AZ	C/FFP/Opt	CECOM	Dec-97	Jan-99	16	1595	YES		
DWS FY 99	Motorola, Scotsdale, AZ	SS/T&M	CECOM	Jun-99	Sep-99	4	500	YES		

REMARKS: .MS III DAB review is scheduled for the 3rd Qtr 99.

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Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	=				
OTHER P	ROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t			II.	NTEGRATED BROA	DCAST TERMINAL	MODS (TIAR (BA10	81)	
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
						_				_		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
Initial Spares												
Total Proc Cost	0.0	0.0	0.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Integrated Broadcast Service (IBS) is the worldwide DOD standard network for transmitting tactical and strategic intelligence as well as battle management data. Starting in FY99, all DOD systems requiring access to the IBS will gain this access via a new family of common IBS modules (CIBS-M) and Joint Tactical Terminals (JTT). The initial CIBS modules will begin production in FY99 and ultimately upgrade all IBS migration tactical terminals currently in use by the services. Prior to the initiation of the CIBS-M program, the services received the IBS Broadcast via the Commander's Tactical Terminal (CTT), Multi-Missioned Advanced Tactical Terminal (MATT) and Tactical Receive Equipment (TRE). It was anticipated that the CTTs would require modifications to maintain accessability and interoperability with the IBS Broadcasts. This was to be done via CIBS-M. Based on a detailed migration plan for the CTT Hybrid/Receive (H/R) and CTT 3, and the slip in IBS initial Operating Capability to FY02, it has been determined that it is more cost effective from a life cycle perspective to replace existing CTT Hybrid Receive (H/R) and CTT 3 with baseline JTT. FY99 Mod in Service funding will be used to support a modification to the baseline JTT. This modification, a reduced size JTT, is needed to support special operations forces requirements (i.e. man portable, briefcase) which the baseline JTT cannot satisfy due to size/weight constraints.

JUSTIFICATION: No funding required in FY 00/01.

	Evhibit D	-40M Budget I	ltom lustifi	eation Shoot			Date				
Appropriation / Budget Activity/		-40W Budget I	iteili Justilli	Janon Sneet	P-1 Item Nomenclati	uro			February 1999		
	PROCUREMENT / 2 / Communications an	d Electronics Equipment			P-1 item Nomencial		ITEGRATED BROAF	CAST TERMINAL N	MODS (TIAR (BA1081)		
Program Elements for Code B		a Elocuoriioo Eqaipinoni	Code	Other Related Progr	ram Elements	<u>"</u>	TEGRATES SITORIE				
regram Ziomente lei eede Z			0000	outer reduced rings	am Elomonio						
Description		Fiscal Years	<u>. </u>	<u> </u>							
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
	JTT (NON-RECURRING					<u> </u>	1				
1-98-XXX1	OPERATIONAL	0.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
Totals		0.4	6.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.9
ĺ											

INDIVIDUAL MODIFICATION Date February 1999 REDUCED SIZE JTT (NON-RECURRING & RECURRING 1-98-XXX1 MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED: DESCRIPTION / JUSTIFICATION: JUSTIFICATION: The JTT Joint Operational RequirementsDocument(JORD) defined requirements for a reduced size JTT Briefcase version to satisfy man-pack, man-portable and palletized JTT requirements. Current support for this reduced size JTT is very high from Army Special Operations Command, and U S Special Operations Command (SOCOM). The effort funded via this program will accelerate fielding of a critical capability to truly disadvantaged tactical users (i.e. airborne platforms and special operations forces). Installation costs will not be required in FY 99 as Host platforms will be responsible for costs. Host platforms are MI groups, CGS, DWS, GRCS, ETRAC, ACS, ASAS, Patriot, THAAD, SHORAD, MEADS, JLENS and MLRS. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Enter Milestones Here. PLANNED **ACCOMPLISHED** REDUCED SIZE JTT CONTRACT AWARD MAR 99 APR 00 CONTRACTOR TEST INITIAL DELIVERY FUE JUN 00 Installation Schedule: Pr Yr FY 1999 FY 2001 FY 2003 FY 2000 FY 2002 3 3 Totals 2 1 3 Inputs Outputs 5 FY 2004 FY 2005 FY 2006 FY 2007 To Totals Complete Inputs Outputs 10 METHOD OF IMPLEMENTATION: PRODUCTION LEADTIME: ADMINISTRATIVE LEADTIME: 3 Months 15 Months Contract Dates: FY 1999 **MAR 99** FY 2000 FY 2001 Delivery Date: FY 1999 FY 2000 JUN 00 FY 2001

INDIVIDUAL MODIFICATION Date February 1999 REDUCED SIZE JTT (NON-RECURRING & RECURRING 1-98-XXX1 MODIFICATION TITLE (Cont): FINANCIAL PLAN: (\$ in Millions) FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 and Prior TOTAL Qty Qty Qty Qty Qty Qty Qty Qty Qty Qty \$ \$ RDT&E PROCUREMENT Kit Quantity 77 77 Installation Kits 77 0.9 77 0.9 Installation Kits, Nonrecurring 77 0.5 77 0.5 Equipment 10 1.0 10 1.0 Equipment, Nonrecurring **Engineering Change Orders** 5.5 5.5 Data Training Equipment Support Equipment Other 0.4 0.4 Interim Contractor Support Installation of Hardware FY 1998 & Prior Eqpt -- Kits FY 1999 Eqpt -- Kits FY 2000 Eqpt -- Kits FY 2001 Eqpt -- Kits FY 2002 Eqpt -- kits FY 2003 Eqpt -- kits FY 2004 Eqpt -- kits FY 2005 Eqpt -- kits TC Equip-Kits Total Installment Total Procurement Cost 1.8 6.5 8.3

								Date:				
		Exhibit P-4	l0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	-				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				DIGITAL TOPOGR	APHIC SPT SYS (DT	TSS) (TIAR (KA2550)	
Program Elements for Code B Is	tems:			Code:	Other Related Prog	ram Elements:						
	T = T	=>/ /	=>//	=>//	=1/				=======================================		I = a I	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	58	3	4	10	36	12	3	4	5	12		147
Gross Cost	42.9	6.4	7.2	21.2	24.5	20.2	4.5	4.5	29.6	64.3	74.0	299.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	42.9	6.4	7.2	21.2	24.5	20.2	4.5	4.5	29.6	64.3	74.0	299.4
Initial Spares												
Total Proc Cost	42.9	6.4	7.2	21.2	24.5	20.2	4.5	4.5	29.6	64.3	74.0	299.4
Flyaway U/C												
Wpn Sys Proc U/C		·										·

The current terrain analysis, topographic and reproduction support provided by Army Engineer Terrain Teams are slow, labor intensive processes that do not meet the needs of the Force XXI digitized battlefield in which the commander must have the ability to rapidly obtain terrain information and topographic products such as cross-country movement, concealment, supply routes, avenues of approach, and line of sight. The DTSS will automate the updating and processing of terrain information into terrain analysis products, provide rapid reproduction of low volume, up-to-date, large format, full color imagery maps, situation overlays, special graphics (e.g., captured enemy maps) and other topographic and terrain products. The Combat Terrain Information Systems (CTIS) Modernization Plan, approved in April 1994 by the Combat Developer, emphasized the development of a combined, integrated terrain analysis and graphics reproduction capability. With the advent of new technology, these capabilities can be provided in an integrated and downsized (HMMWV) configuration (DTSS-Light). The DTSS-Light is capable of supporting highly mobile contingency operations, stability and support operations, and split based operations. The DTSS-Heavy incorporates terrain analysis and reproduction capabilities into a single platform while preserving the Army's investment in the 5-ton system. The DTSS-Deployable (D)(formerly the DTSS-Multispectral Imagery Processor (MSIP)) provides a digital capability to generate and print image maps where standard NIMA map products do not exist. The DTSS-D has been upgraded to a commercial configuration that operates all of the software available on the DTSS-L and DTSS-H. The DTSS-Base (formerly the Topographic Imagery Integration Prototype (TIIP)) is designed to augment NIMA capabilities at the EAC level by providing quick response, special purpose mapping, terrain analysis and data base generation. The DTSS-B includes a Top Secret - SCI component that is capable of handling national asset information in a s

Exhibit P-40C Budget I	tem Justific	cation Sheet		Date February 1999
Appropriation / Budget Activity/Serial No.			P-1 Item Nomenclature	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				DIGITAL TOPOGRAPHIC SPT SYS (DTSS) (TIAR (KA2550)
Program Elements for Code B Items	Code	Other Related Progr	ram Elements	
JUSTIFICATION:				
FY00/01 funding will be used for procurement of the DTSS approved Army Order of Precedence fielding requirements modernization of Commercial Off-the-Shelf (COTS) and N	s. DTSS-D : on-developi RD requirem	and DTSS-B mental Item (ent to field th	procurement is in accorda NDI) components. Based ne DTSS-L to Brigade leve	upon lessons learned from the Division XXI Army I. The FY00-01 OPA funding profile has been increased to

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ But OTHER F Communications	ROCUREN	MENT / 2 /			em Nomenclature: TOPOGRAPHIC S (TIAR (KA255	. ,		Weapon System	Туре:	Date: Feb	ruary 1999
OPA	ID		FY 98			FY 99	, ,		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware a. DTSS-Deployable (Enhancements) b. DTSS-Heavy c. DTSS-Light d. DTSS-Base (Enhancements)	Α	5000	4	1250	13822	20	691	9302 10828	28 16		12140 3110		67 ⁴ 1037
Engineering Support a. DTSS ECP Engineering b. Misc Out-of-House Engineering		200 300			1200 300			1200 300			1300 400		
Fielding a. Total Package Fielding b. New Equipment Training c. First Destination Transportation		250 275 66			400 450 200			510 610 450			560 660 600		
4. Project Management and Administration		800			800			900			900		
5. Interim Contractor Support		300			300			400			500		
Institutional Training (Hardware & Software Procurement)					3700								
TOTAL		7191			21172			24500			20170		
Note: DTSS-L Qty increase reflects approved BOIP change from dual shelter to single shelter configuration.													

								Date:		
Exh	nibit P-5a, Budget Procureme	nt History a	and Planning						February 1	1999
Appropriation / Budget Activity/Serial No:		Weapon Syst	em Type:		P-1 Line Item	Nomenclatur	e:			
OTHER PROCUREMENT / 2 / Communications and Electro	onics				DIC	SITAL TOPOG	RAPHIC SPT SYS	(DTSS) (T	AR (KA25	550)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	Date
a. DTSS-Deployable (Enhancements)										
FY 00	TBS	C/FP	USA Topo Eng Center	Nov-99	May-00	28	332	No		
b. DTSS-Heavy										
FY 98	SFA Inc., Frederick, MD	C/FP	Aberdeen Proving Grounds	Feb-98	Nov-98	4	1250	Yes		
c. DTSS-Light										
FY 99	TBS	C/FP	USA Topo Eng Center		Feb-00	20	691	Yes		
FY 00	TBS	C/FP	USA Topo Eng Center	Nov-99		16	677	Yes		
FY 01	TBS	C/FP	USA Topo Eng Center	Nov-00	Nov-01	18	674	Yes		
d. DTSS-Base (Enhancements)										
FY 01	TBS	C/FP	USA Topo Eng Center	Nov-00	May-01	3	1037	No		
I										

REMARKS:

FY00/01 funding will be used for procurement of the DTSS-L (FY00/01), DTSS-D(FY00) and DTSS-B (FY01). Procurement of the DTSS-L in FY00/01 supports HQDA approved Army Order of Precedence delivery requirements. DTSS-D and DTSS-B procurement is in accordance with a HQDA approved 5-yr. cyclic upgrade plan for modernization of Commercial Off-the-Shelf (COTS) and Non-developmental Item (NDI) components.

		Evhihit D-/	In Budget	ltom lustifi	cation Sheet			Date:				
		EXHIBIT F-4	o, Buaget	item Justin	cation Sneet					February 1999		
Appropriation / Budget Activity/S						P-1 Item Nomencla						
OTHER F	PROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t			TA	CTICAL EXPLOITAT	TION OF NATIONAL	CAPABILITIES (BZ	7315)	
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	95.0	1.8	1.6	6.1	4.4	12.9	13.9	15.7	3.9	2.9	0.0	158.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	95.0	1.8	1.6	6.1	4.4	12.9	13.9	15.7	3.9	2.9	0.0	158.2
Initial Spares												
Total Proc Cost	95.0	1.8	1.6	6.1	4.4	12.9	13.9	15.7	3.9	2.9	0.0	158.2
Flyaway U/C		•										•
Wpn Sys Proc U/C												

Description: The Tactical Exploitation of National Capabilities (TENCAP) Program provides tactical commanders with rapid access to critical information collected by National Intelligence Sources. To date, the program has been responsible for provisioning the AN/TSQ 134(V) (Advanced Electronic Processing and Dissemination System (AEPDS), the Forward Area Support Terminal (FAST), the Mobile Integrated Tactical Terminal (MITT) and the emerging Tactical Exploitation System (TES) to Army Echelons Above Corps, Corps and maneuver divisions. All systems are characterized as stand alone systems, with multiple communications capability defined in UHF S-Band and terrestrial communications packages, and with the exception of FAST, systems are contained in shelters or vans, with a dedicated primemover and system operators. The TENCAP Program also manages the Enhanced Tactical Radar Correlator (ETRAC) and the Modernized Imagery Exploitation System (MIES). Further information may be found at the Tactical Intelligence and Related Activities (TIARA) Congressional Justification Book, Volume II and the Army's TENCAP Master Plan.

Justification: The FY00/01 funds procure both military and commercial hardware and software (GOTS/COTS) capabilities to enhance TENCAP systems' performance and to maintain interoperability with National systems and Army tactical communications architecture. The Units procured under this line are components that are incorporated into all TENCAP systems (including ETRAC and MIES) and fall under the TENCAP Common Baseline Project, which addresses common subsystems, planned improvements, key activities and ongoing/planned intiatives determined to have potential application to multiple TENCAP systems. The FY00/01 funds procure both military and commercial hardware and software (GOTS/COTS) capabilities necessary to field the TES which brings all of the existing and emerging Army TENCAP capabilities into an integrated common baseline; downsized, modular and scalable to meet a wide range of contingency requirements as well as incorporates the standards and protocols dictated by the Common Imagery Ground/Surface System (CIG/SS) program.

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREM			TACTICA	m Nomenclature: L EXPLOITATION CAPABILITIES (B.			Weapon System	Type:	Date: Febi	uary 1999
OPA	ID	Communications	FY 98	onics Equipment		FY 99	CAPABILITIES (B.	2/315)	FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
- TMV Van		1618	3	539	1673	3	558				2400	4	600
- DAMA Capable Radios								3740	7	534	4446	8	556
-Common Imagery Processor											3000	4	750
- Increased carrying capacity HMMWV								100	9	11	100	9	11
-Sterling CSP								380	2	190	800	4	200
-MIDAS											2000	2	1000
-GBS Receiver											200	4	50
-Communications Guard								150	3	50			
-Grenadier Brat					4400	400	11						
TOTAL		1618			6073			4370			12946		
DAMA: Demand Assigned Multiple Access for UHF Satellite Communications TES: Tactical Exploitation System DTES: Division TacticalExploitation System													
TMV: Tactical Mission Van													
CSP:Communications System Processor													
GBS: Global Broadcast System													

Ex	chibit P-5a, Budget Procureme	nt History a	nd Planning					Date:	ebruary 1	999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Elec	etronics	Weapon Syst	em Type:			Nomenclatur	e: ITATION OF NAT'L	CAPABILI	TIES (BZ7	'315)
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost \$000	Specs Avail Now?	Date Revsn Avail	RFP Issu Date
FY 98 - TMV Van	Classified	C/CDAE	Classified	1Q98	4Q98	3	539	Yes		
FY 99 - TMV Van	Classified		Classified	2Q99	4Q98 4Q99	3	558	Yes		
FY 01 - TMV Van	Classified		Classified	2Q99 2Q01	4Q99 4Q01	4	600	Yes		
		20/25.5			2024	_		.,		
FY 00 - DAMA Capable Radios	Classified		Classified	3Q00	2Q01	7	534	Yes		
FY 01 - DAMA Capable Radios	Classified	SS/CPAF	Classified	2Q01	1Q02	8	556	Yes		
FY 01 - Common Imagery Processor	Northrup Grumman	C/CPAF	USAF ASC	1Q01	1Q02	4	750	Yes		
FY 00 - Increased Capacity HMMWV	OGA	N/A	N/A	1Q00	4Q00	9	11	Yes		
FY 01 - Increased Capacity HMMWV	OGA	N/A	N/A	1Q01	4Q01	9	11	Yes		
FY 00 - Sterling CSP	TBD	TBD	TBD	1Q00	4Q00	2	190	Yes		
FY 01 - Sterling CSP	TBD	TBD	TBD	1Q01	4Q01	4	200	Yes		
FY 01 - MIDAS	Classified	SS/CPAF	Classified	1Q01	1Q02	2	1000	Yes		
FY 01 - GBS Receiver	Raytheon Co, Marlboro, MA	C/CPAF	TBD	2Q01	4Q01	4	50	Yes		
FY 00 - Communications Guard	TBD	TBD	TBD	2Q00	4Q00	3	50	Yes		
FY 99 - Grenadier Brat	Classified	SS/CPAF	ARL	2Q99	4Q99	400	11	Yes		

REMARKS: TMV: Tactical Mission Van

DAMA: Demand Assigned Multiple Access for UHF Satellite Communicationsl CSP: Communications System processor

GBS: Global Broadcast System

								Date:				
		Exhibit P-4	0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	-				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t			CON	MMON IMAGERY GR	OUND/SURFACE S	YSTEM (CIGSS) (B	Z7316)	
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	2.5	2.8	2.9	2.6	2.6	2.7	2.8	Cont	Cont
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	2.5	2.8	2.9	2.6	2.6	2.7	2.8	Cont	Cont
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	2.5	2.8	2.9	2.6	2.6	2.7	2.8	Cont	Cont
Flyaway U/C												
Wpn Sys Proc U/C												

Description: The Common Imagery Ground/Surface System (CIGSS) is a Department of Defense (DoD) project aggregating all imagery ground/surface systems into a single project. The CIGSS objective is to enable all systems to receive, process, exploit, and report any imagery source regardless of platform or sensor type to meet the intelligence and targeting needs of tactical commanders. The CIGSS project provides the warfighter with an integrated and interoperable airborne reconnaissance imagery processing and exploitation capability that can be tailored for all levels of conflict. CIGSS consolidates the JROC and DARSC approved restructure of the Joint Service Imagery Processing System (JSIPS) program including the JSIPS-Navy, JSIPS-Air Force, JSIPS-Marine Corps, Enhanced Tactical Radar Correlator (ETRAC), Modernized Imagery Exploitation System (MIES), PACAF Interim National Exploitation System (PINES), and Tactical Exploitation Group (TEG) into a single project.

Justification: The Army CIGSS components consist of the MIES, ETRAC, and the imagery portion of the Tactical Exploitation System (TES). ETRAC is a stand-alone synthetic radar (SAR) processing and limited exploitation system based on the Common SAR Processor (CSARP). ETRAC and MIES are combined in the TES to be fielded beginning in FY99. MIES is a COTS/GOTS developed system that receives and exploits national and theater imagery and generates intelligence reports and products.

FY98 and prior, this effort was funded through the DARO in PE 0305154D (FY 95/96/97) and 0305208D (FY 98).

Exhibit P-5, Weapon		Appropriation/ But OTHER	udget Activit PROCUREN				em Nomenclature: N IMAGERY GRO			Weapon System	Type:	Date: Feb	uary 1999
OPA Cost Analysis				onics Equipment		00	SYSTEM (BZ7)						adily 1000
OPA	ID		FY 98			FY 99	01012m (221	7.07	FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Cook Elomonic		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		- - - - - - - - - -		-	- - - - - - - - - -		4000	ψοσσ		- 	ΨΟΟΟ		4000
Procure DEs					2501	2	1251	2791	2	1424	2853	2	142
TOTAL					2501			2791			2853		
DE: Dissemination Element													
			1						ĺ				

Facility 20	D. Fo. Dudwet Duceus-	l liatam: a	nd Dlanning					Date:		
	P-5a, Budget Procurement				T:				February 1	999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon Syste	ет Туре:			Nomenclatur	e: RY GROUND SURI	FACE SYS	STEM (BZ7	7316)
VBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Iss Date
iscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Procure DEs										
FY 99 FY 00 FY 01	Lockheed Martin, Philadelphia PA Lockheed Martin, Philadelphia PA Lockheed Martin, Philadelphia PA	SS/CPAF SS/CPAF SS/CPAF	NIMA	2Q99 2Q00 2Q01	4Q99 4Q00 4Q01	2 2 2	1424	Yes		

							Date:					
	Exhibit P-4	0, Budget	ltem Justific	ation Sheet					September 1998			
erial No:					P-1 Item Nomenclat	ure:						
ROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t				JOINT TACTICAL	GROUND STATIO	N MODS (BZ8420)			
ems:			Code:	Other Related Progr	am Elements:							
Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog	
0.0	0.0	0.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	
0.0	0.0	0.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.7	
0.0	0.0	0.1	2.6	0.0	0.0 0.0 0.0 0.0 0.0							
	Prior Years 0.0 0.0	Prior Years FY 1997 0.0 0.0 0.0 0.0	Prior Years FY 1997 FY 1998 0.0 0.0 0.1	Prior Years FY 1997 FY 1998 FY 1999 0.0 0.0 0.1 2.6	Prior Years FY 1997 FY 1998 FY 1999 FY 2000	Code: Other Related Program Elements:	P-1 Item Nomenclature:	P-1	P-1 Item Nomenclature:	P-1	P-1 Item Nomenclature:	

The Joint Tactical Ground Station (JTAGS) Modification program integrates the Joint Tactical Information Distribution System (JTIDS) into JTAGS to which will distribute JTAGS data via the Joint Theater Missile Defense (JTMD) communication nets, implement Year 2000 (Y2K) compliance changes, and fuse Defense Support Program (DSP) sensor data with data from other sensors for improved cueing and predicted ground impact point (PGIP) accuracies.

JUSTIFICATION:

FY99 funding procures and integrates JTIDS radios and sensor fusion improvements into JTAGS that are needed to interface directly with the Joint Theater Warning Net and improve cueling and PGIP accuracies.

		Exhibit P-4	I0, Budget	Item Justific	cation Sheet			Date:		February 1999						
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	<u> </u>								
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				TR	OJAN (TIARA) (BA0	326)						
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:										
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog				
Proc Qty																
Gross Cost	151.0	4.2	3.7	4.0	4.3	4.4	4.4	4.4 4.5 4.6 4.7 0.0 1								
Less PY Adv Proc																
Plus CY Adv Proc																
Net Proc (P-1)	151.0	4.2	3.7	4.0	4.3	4.4	4.4	4.5	4.6	4.7	0.0	190.1				
Initial Spares																
Total Proc Cost	151.0	4.2	3.7	4.0	4.3	4.4	4.4	4.5	4.6	4.7	0.0	190.1				
Flyaway U/C																
Wpn Sys Proc U/C																

DESCRIPTION: TROJAN is a combined operational and readiness mission system which uses advanced networking technology to provide rapid relay; secure communications to include voice, data, facsimile; and electronic reconnaissance support to U.S. forces throughout the world. TROJAN operations may be easily tailored to fit military intelligence unit training schedules, and surged during specific events to involve every aspect of the tactical intelligence collection, processing analysis and reporting efforts.

JUSTIFICATION: Funds are for the collection and processing of system upgrades, dissemination enhancements, networking improvements, and migration to a National Common Remoted Systems (CRS) architecture, and to complete fielding of TROJAN SPIRIT 6.1m Mobile Antenna Platforms (MAP).

OPA	Control Cont	Exhibit P-5, Weapon OPA Cost Analysis			ROCUREN	MENT/2/			m Nomenclature: OJAN (TIARA) (E			Weapon System	Туре:	Date: Feb	ruary 1999
Cost Elements CD TotalCost Qty UnitCost	Cost Elements CD TotalCost Qty UnitCost Qty UnitCost TotalCost Qty UnitCost			Communications		onics Equipment									
\$000 Each \$000 \$000 Each \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 <th< th=""><th>\$000 Each \$000 \$000 Each \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 <th< th=""><th>OPA</th><th>ID</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<></th></th<>	\$000 Each \$000 \$000 Each \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 \$000 <th< th=""><th>OPA</th><th>ID</th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></th<>	OPA	ID												
TROJAN CLASSIC (TIARA) 3225 3519 4268 4382	TROJAN CLASSIC (TIARA) 3225 3519 4268 4382	Cost Elements	CD												UnitCost
				\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		ROJAN CLASSIC (TIARA) ROJAN SPIRIT - TERMINALS (TIARA)		3225	Each	\$000	3519	Each	\$000	\$000 4268	Lach	\$000	4382	Each	\$000

		Exhibit P-4	10, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	erial No:					P-1 Item Nomencla	ture:	-				
OTHER PI	ROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				TROJAN	CLASSIC (TIARA)	(BA0331)		
Program Elements for Code B Ite	ems:			Code:	Other Related Prog	gram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	98.3	2.1	3.2	3.5	4.3	4.4	4.4	4.4	4.6	4.7	0.0	134.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	98.3	2.1	3.2	3.5	4.3	4.4	4.4	4.4	4.6	4.7	0.0	134.0
Initial Spares												
Total Proc Cost	98.3	2.1	3.2	3.5	4.3	4.4	4.4	4.4	4.6	4.7	0.0	134.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: TROJAN is a combined operational and readiness mission system which uses advanced networking technology to provide rapid radio relay; secure communications and electronic reconnaissance support to U.S. forces throughout the world. TROJAN operations may be easily tailored to fit military intelligence unit training schedules, and surged during specific events to involve every aspect of the tactical intelligence collection, processing, analysis and reporting efforts.

TROJAN Classic consist of four subsystems: Remote Receiver Groups, located at border sites; Monitor Control Groups to include analyst workstation groups, located at unit garrisons; digital data switching group which provides the automated switching capability; and switch extensions which provide operational control, intelligence dissemination, administrative and logistics functions.

JUSTIFICATION: Funds for collection and processing system upgrades to the TROPJAN Classic system and migration to a National Common Remoted Systems (CRS) architecture.

Exhibit P-5, Weapon OPA Cost Analysis			ROCUREN and Electro			TROJA	em Nomenclature .N CLASSIC (TIAI			Weapon System	Туре:		ruary 1999
OPA	ID	•	FY 98		1	FY 99		1	FY 00	•		FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware Procurement		2550	VAR	VAR	2855	VAR	VAR	3593	VAR	VAR	3707	VAR	VAR
Engineering/Technical Support													
In-House Contractor		500 175			500 175			500 175			500 175		
TOTAL		3225			3530			4268			4382		

-	xhibit P-5a, Budget Procurement	History o	nd Planning					Date:	February	1000
Appropriation / Budget Activity/Serial No:	Mibit P-5a, Budget Procurement	Weapon Syst			P-1 Line Iten	n Nomenclatur	ro.		February	1999
OTHER PROCUREMENT / 2 / Communications and E	Electronics	Weapon Cycl	от туро.		r-i Line iten		N CLASSIC (TIAR	A) (BA03	31)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Iss Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Hardware Procurement FY98										
naruware Procurement P 190	Hewlet Packard, MD	C/FP(Op)	CECOM	Dec-97	Apr-98	VAR	VAR	YES	NO	
	ASC, Winterpark, FL	FP(Op)	CECOM		Aug-98	VAR	VAR		NO	
	Sun Microsystems	FP(Op)	GSA	Apr-98		VAR	VAR		NO	
	CISCO Systems, Waltham MA	FP(Op)	GSA		Aug-98	VAR	VAR	YES	NO	
	OAO, Greenbelt, MD	FP(Op)	NIH	Jul-98	Oct-98	VAR	VAR		NO	
Hardware Procurement FY99										
	Novas Technology, Alex. VA	FP(Op)	CECOM	Dec-98	May-99	VAR	VAR	YES	NO	
	Sun Microsystems	FP(Op)	GSA		May-99		VAR	YES	NO	
	CISCO Systems, Waltham MA	FP(Op)	GSA	Mar-99		VAR	VAR	YES	NO	
	Watkins Johnson	FP(Op)	CECOM			VAR	VAR	YES	NO	
	Dynamic Instruments	FP(Op)	GSA Fast	Apr-99	Sep-99	VAR	VAR	YES	NO	
Hardware Procurement FY00										
	Andrews-SICOM, Garland, TX	FP(Op)	GSA	Nov-99	May-00	VAR	VAR	YES	NO	
	Sun Microsystems	FP(Op)	GSA		May-00		VAR	YES	NO	
	STC Olectron	FP(Op)	GSA Fast	Mar-00		VAR	VAR	YES	NO	
	Dynamic Instruments, CA	FP(Op)	GSA Fast	Apr-00	Sep-00	VAR	VAR	YES	NO	
Hardware Procurement FY01										
	Andrews-SICOM, Garland, TX	FP(Op)	GSA	Nov-00	May-01	VAR	VAR	YES	NO	
	Sun Microsystems	FP(Op)	GSA		May-01	VAR	VAR	YES	NO	
	CISCO Systems, Waltham MA	FP(Op)	GSA	Mar-01	Jul-01	VAR	VAR	YES	NO	
	Watkins Johnson	FP(Op)	GSA	Apr-01	Sep-01	VAR	VAR	YES	NO	

REMARKS:

Peculiarities of specific TROJAN Classic XXI mission and fielding locations require subsystems to be compatible and interoperable, but hardware may vary from location to location due to specific mission requirements. Hardware acquisitions reflect this requirement.

		Exhibit P-4	10, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S		P-1 Item Nomencla	ture:	-								
OTHER PI	ROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				TROJAN SPIR	RIT - TERMINALS (TI	ARA) (BA0333)		
Program Elements for Code B Ite	ems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	44.2	2.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	44.2	2.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.2
Initial Spares												
Total Proc Cost	44.2	2.1	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	47.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The TROJAN SPIRIT II is a collection of electronics equipment which provides contingency forces with an operational readiness capability providing an intelligence processing and dissemination system consisting of secure voice, secure data, secure facsimile and secondary imagery worldwide via an organic long haul satellite communications network split-based, multi-echelon force projection operations.

TROJAN SPIRIT II systems consist of five major subsystems: power generation subsystem; communications subsystem (C, Ku, X Bands; (HF/MSE/CTT receive only) UHF SatCom); prime mission movers with shelters; and communications interface equipment.

JUSTIFICATION: Funds for completion of fielding of the TROJAN SPIRIT II 6.1 meter Mobile Antenna Platforms.

Exhibit P-5, Weapon OPA Cost Analysis			ROCUREN	IENT / 2 /			em Nomenclature N SPIRIT - TERMI			Weapon System	Type:	Date: Feb	ruary 1999
		Communications		onics Equipment		5)/ 00	(BA0333)		E)/ 00			E)/ 0/	
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCos
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
TROJAN 6.1m MAP Fielding Support		462	VAR	VAR	461	VAR	VAR						
TOTAL		462			461								

Fyhir	oit P-5a, Budget Procuremen	at History a	and Planning					Date:	February 1	1000
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electroni		Weapon Syste			P-1 Line Iter	m Nomenclatu	ure: PIRIT - TERMINALS		•	
Equipment WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First		Unit Cost \$000	0	Date Revsn Avail	RFP Issue Date
Contractor Fielding/Deployment Support FY 98 FY 99	Raytheon E-Systems, TX Raytheon E-Systems, TX	C/FP(Op)	CECOM	Aug-98 Sep-99		VAR	VAR	YES	NO NO	
NEWANNS.										

		Exhibit P-4	l0, Budget ∣	Item Justific	cation Sheet			Date:		Februrary 1999						
Appropriation / Budget Activity/S	erial No:					P-1 Item Nomenclat	ure:	-								
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				MOD OF IN-SVC	EQUIP (INTEL SPT)	(TIARA) (BZ9750)						
Program Elements for Code B It	ems:			Code:	Other Related Prog	ram Elements:										
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog				
Proc Qty																
Gross Cost	209.5	14.4	1.6	4.9	9.1	2.8 2.9 0.1 5.9 9.8 Cont C										
Less PY Adv Proc									1 5.9 9.8 Cont C							
Plus CY Adv Proc																
Net Proc (P-1)	209.5	14.4	1.6	4.9	9.1	2.8	2.9	0.1	5.9	9.8	Cont	Cont				
Initial Spares																
Total Proc Cost	209.5	14.4	1.6	4.9	9.1	2.8 2.9 0.1 5.9 9.8 Cont C										
Flyaway U/C																
Wpn Sys Proc U/C																

Modifications of in service equipment (MODS) provide for three materiel change/upgrades to: (1) TRAILBLAZER, AN/TSQ-138, SINCGARS Interference Cancellation upgrade to resolve problems (hardware and software) associated with integration of the Single Channel Ground and Airborne Radio system (SINCGARS). SINCGARS is the new generation of Combat Net Radio (CNR). SINCGARS is replacing the AN/VRC-12 family of single channel radios. The integration of SINCGARS requires other hardware and software changes because of differences from the AN/VRC-12 series radios being replaced. (2) The AN/PRD-13(V)2 provides for an organic system that can intercept, DF and provide threat warning and situational awareness information directly to the support unit. The system is modular, very light weight, with minimal power requirements and configurable to support man-pack operations. (3) GBCS upgrades are required to support the units that will be deployed to the 82nd Airborne Division in response to an urgent operational need. The upgrades will sustain the systems in the field and allow performance to keep pace with expected threat.

JUSTIFICATION: The AN/PRD-13 will be fielded by Special Operations Command (SOCOM) to US Army Light Divisions. The FY 00 and FY 01 funding is required to support the GBCS LPU units which will be deployed to the 82nd ABN Division in FY00 in response to an urgent operational need.

	Exhib	it P-40M Budget It	em Justific	ation Sheet			Date		Februrary 1999		
Appropriation / Budget Activity	//Serial No.				P-1 Item Nomenclatu	re					
OTHER	PROCUREMENT / 2 / Communication	ns and Electronics Equipment					MOD OF IN-SVC E	QUIP (INTEL SPT)	(TIARA) (BZ9750)		
Program Elements for Code E	3 Items		Code	Other Related Progra	am Elements						
Description		Fiscal Years									
OSIP NO.	Classification	FY 1998 and pr	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
SINCGARS Interf	erence Cancellation										
1-91-07-0003	Operational	32.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	32.6
AN/PRD-13(V)2 F	Procurement										
1-97-07-0001	Operational	0.0	4.9	8.1	0.2	0.2	0.1	1.0	2.0	0.0	16.5
GBCS Upgrades	·										
1-97-07-0002	Operational	0.0	0.0	1.0	2.6	2.7	0.0	4.9	7.8	Cont	Cont
Totals		32.6	4.9	9.1	2.8	2.9	0.1	5.9	9.8	Cont	Cont

INDIVIDUAL MODIFICATION Date Februrary 1999 SINCGARS Interference Cancellation 1-91-07-0003 MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED: AN/TSQ-138(TRAILBLAZER) DESCRIPTION / JUSTIFICATION: This Materiel Change will resolve problems (hardware and software) associated with integration of the Single Channel Ground and Airborne Radio system (SINCGARS) into Intelligence Electronic Warfare (IEW) systems. SINCGARS is the new generation of Combat Net Radio (CNR). It is replacing the AN/VRC-12 family of single channel radios. SINCGARS provides effective Electronic Counter-Countermeasures (ECCM) by randomly hopping to preassigned frequencies. This random hopping causes anomalies in IEW mission equipment which require hardware/software changes. In addition, its integration into IEW systems requires other hardware and software changes because of differences from the AN/VRC-12 series radios being replaced. This modification program to be completed in December 1999. Planned Accomplished DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Inprocess Review/Production Decision Sep 93 Sep 93 Contract Award for 3 Models Mar 94 Mar 94 Competitive Production Contract Award Jun 96 Jun 96 Materiel Fielding Agreement/MWO Field Plan Negotiated Feb 98 Feb 98 First Kit Applied Oct 97 Oct 97 Last Kit Applied Dec 99 Installation Schedule: Pr Yr FY 1999 FY 2000 FY 2001 FY 2003 FY 2002 3 3 3 3 Totals 2 1 1 1 37 Inputs Outputs 30 FY 2004 FY 2005 FY 2006 FY 2007 To Totals Complete Inputs 37 Outputs 37 METHOD OF IMPLEMENTATION: PRODUCTION LEADTIME: ADMINISTRATIVE LEADTIME: Months Months Contract Dates: FY 1999 FY 2000 FY 2001

FY 2001

FY 2000

Delivery Date:

FY 1999

INDIVIDUAL MODIFICATION Date Februrary 1999 SINCGARS Interference Cancellation 1-91-07-0003 MODIFICATION TITLE (Cont): FINANCIAL PLAN: (\$ in Millions) FY 1998 FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 TOTAL and Prior Qty Qty \$ Qty Qty Qty Qty Qty Qty Qty Qty \$ \$ \$ \$ \$ RDT&E **PROCUREMENT** Kit Quantity 37 26.6 37 26.6 Installation Kits Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring **Engineering Change Orders** 0.5 0.5 0.3 Data 0.3 Training Equipment Support Equipment Other 3.5 3.5 Interim Contractor Support Installation of Hardware FY 1998 & Prior Eqpt -- Kits 37 1.7 37 1.7 FY 1999 Eqpt -- Kits FY 2000 Eqpt -- Kits FY 2001 Eqpt -- Kits FY 2002 Eqpt -- kits FY 2003 Eqpt -- kits FY 2004 Eqpt -- kits FY 2005 Eqpt -- kits TC Equip-Kits Total Installment 37 1.7 37 1.7 Total Procurement Cost 32.6 32.6

INDIVIDUAL MODIFICATION

Date

Februrary 1999

AN/PRD-13(V)2 Procurement 1-97-07-0001 MODIFICATION TITLE:

MODELS OF SYSTEMS AFFECTED: AN/PRD-12 Interim Fix

DESCRIPTION / JUSTIFICATION:

The AN/PRD-12 is a man-transportable radio direction finding (DF) system fielded to Army units that performs intercept and line of bearing measurements and provides fix calculations when operating in the netted mode. The Army units rarely use the netting capability of the AN/PRD-12 as it is operationally difficult to establish and bears little influence on mission success. A requirement exists for an organic system to provide threat warning and situational awareness information directly to the supported unit. The system must be modular, very light weight, with minimal power requirements and configurable to support man-pack operations.

JUSTIFICATION: The AN/PRD-13(V)2 procurement is an interim fix for the AN/PRD-12. Headquarters Department of the Army has directed the AN/PRD-13 be fielded by Special Operations Command (SOCOM) to US Army Light Divisions. The sustainment will be provided by Contractor Logistics Support with the primary vendor. All fielding and training will be accomplished by SOCOM.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Contract Award Date PLANNED: Jan 99 ACCOMPLISHED:

First Production Hardware Delivered Dec 99 Materiel Fielding Agreement/MWO Fielding Plan Jul 99

First Kit Applied **Nov 99** Last Kit Applied Oct 00

Installation Schedule:

Inputs Outputs

					1															
Pr Yr		FY	1999			FY 2000				FY 2	2001			FY 2	2002			FY	2003	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
					30	30	30	30	30											
					30	30	30	30	30											

		FY 2	2004			FY 2005				FY 2	006			FY	2007		To	Totals
	1	2	;	3	4	1 2	3	4	1	2	3	4	•	1 2	2 3	3	4 Complete	
Inputs																		150
Outputs																		150

METHOD OF IMPLEMENTATION: ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: 12 Months 12 Months

Contract Dates: FY 2001 FY 1999 Jan 99 FY 2000 Nov 99 Delivery Date: FY 1999 Jan 00 FY 2000 Nov 00 FY 2001

				IND	IVIDUA	AL MODII	FICATIO	ON							Date		Februr	rary 1999	
MODIFICATION TITLE (Cont):	AN	N/PRD-1	3(V)2	Procur	emen	t 1-97-0	07-000)1											
FINANCIAL PLAN: (\$ in Millions)	FY 1998	ī																	
	and Prior	FY 19	999	FY 2	000	FY 2	2001	FY	2002	FY	2003	FY	2004	FY	2005	Т	C	TOTA	AL
	Qty \$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring Engineering Change Orders Data Training Equipment Support Equipment Other - Sustainment		55	4.9	95	8.1		0.2		0.2		0.1		1.0		2.0			150	13.0
Installation of Hardware FY 1998 & Prior Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2002 Eqpt kits FY 2003 Eqpt kits FY 2004 Eqpt kits FY 2005 Eqpt kits FY 2005 Eqpt kits				55 65		30												55 95	
Total Installment				120		30												150	
Total Procurement Cost			4.9		8.1		0.2		0.2		0.1		1.0		2.0				16.5

						INE	DIVIDUA	AL MOD	IFICATI	ON						D	ate		Februrar	y 1999	
MODIFICATION TITLI	E: GB	CS U _l	ograde	es 1-97	7-07-0	002															
MODELS OF SYSTEM	//S AFFE	CTED:	GBCS-	-L LP(U))																
DESCRIPTION / JUST	TIFICATI	ON:																			
Funding is requi															esponse	e to a	n urger	nt ope	ration	al nee	ed.
DEVELOPMENT STA	TUS / M	AJOR E	DEVELC	PMENT	MILES	TONES	S:			PLA	NNED	<u> </u>		ACO	COMPLI	SHED)				
Fielding/Deployment								Jl	JN 00												
Installation Schedule:																					
Installation Schedule: Pr Yr FY 1999					FY 2	2000			FY 2	2001			FY 200	02			FY 2	003			
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																					
Outputs																					
	FY 2004				FV '	2005			FY 2	2006	1		FY '	2007	1		То			Totals	
1 2 3 4		1	2		4	1	2	3	4	1	2		4	Com	plete			lotais			
nputs					_				_	Ū	•	•	_								
Outputs																					
METHOD OF IMPLEM	IENTATI	ON:	ı	1		ADMIN	ISTRA	TIVE LE	ADTIME	:				PROD	JCTION L	EADTI	ME:	<u> </u>			
Contract Dates: FY 1999								FY 200	0					FY 200	1						
Delivery Date:								FY 200	00					FY 200	1						

			INDIVIDUA	AL MODIFICATION	N			Date	Februr	ary 1999
MODIFICATION TITLE (Cont):	GE	BCS Upgrade	s 1-97-07-000)2						
FINANCIAL PLAN: (\$ in Millions)	FY 1998	ī								
	and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	TOTAL
	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$	Qty \$
RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits, Nonrecurring Equipment Equipment, Nonrecurring										
Engineering Change Orders Data Training Equipment Support Equipment				0.5 0.1	0.5 0.1					1.0 0.2
Other Interim Contractor Support			1.0	2.0	2.1		4.9	7.8		12.7 5.1
Installation of Hardware FY 1998 & Prior Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2002 Eqpt kits FY 2003 Eqpt kits FY 2004 Eqpt kits FY 2005 Eqpt kits										
Total Installment Total Procurement Cost			1.0	2.6	2.7		4.9	7.8		19.0
i olai Fioculeillelli COSI		L	1.0	2.0	2.1	<u> </u>	4.9	7.8	'I	19.0

		Exhibit P-4	0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:	8				
OTHER P	PROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				CI HUMINT AUTON	MATED TOOL SET (0	CHATS) (TI (BK5275	5)	
Program Elements for Code B Is	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	Filor rears	1 1 1997	1 1 1990	111999	112000	1 1 2001	1 1 2002	112003	112004	1 1 2003	To Complete	Total Flog
Gross Cost	0.0	0.0	0.0	3.7	3.1	0.4	1.5	3.9	5.2	1.5	1.0	20.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	3.7	3.1	0.4	1.5	3.9	5.2	1.5	1.0	20.2
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	3.7	3.1	0.4	1.5	3.9	5.2	1.5	1.0	20.2
Flyaway U/C												•
Wpn Sys Proc U/C												•

DESCRIPTION: The Counter Intelligence/Human Intelligence (CI/HUMINT) Management System (CHIMS) is the All Source Analysis System (ASAS) CI/HUMINT subsystem. It is a counter intelligence and human intelligence automation system that meets Army tactical CI/HUMINT information collection, investigation, interrogation, operation, document exploitation, and force protection automation requirements. The architecture is built from four sub-elements:

- o Individual Tactical Reporting Tools (ITRT) for agent/interrogator remote operations.
- o CI/HUMINT Automated Tool Set (CHATS) which operates at the Counter Intelligence Team/Interrogation Prisoner of War (IPW) Team level.
- o Counter Intelligence and Interrogation Operations workstation (CI&I OPS) for DS/GS MI unit command and control which provides functional interfaces to the All Source Analysis System.
- o CI Single-Source Processors (CI SSP) which will operate within the ASAS Analysis and Control Element (ACE).

JUSTIFICATION: FY00 funding supports the replacement of CHATS fielded in FY97 that will have reached the end of their life cycle. Additionally, initial procurement cycle of the ITRTs will begin in FY00 and will continue through FY01. Second ITRT procurement cycle will begin in FY02.

		Exhibit P-4	0, Budget	Item Justific	cation Sheet							
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:					
OTHER P	PROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				ITEMS LES	S THAN \$5.0M (TIAF	RA) (BK5278)		
Program Elements for Code B Is	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	1 1101 1 0010				1 . 2000	200	2002	2000	200 .	1 1 2000	. o complete	1010.1.109
Gross Cost	0.0	0.0	0.0	1.5	0.5	0.6	0.6	0.6	0.7	0.7	0.0	5.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	1.5	0.5	0.6	0.6	0.6	0.7	0.7	0.0	5.3
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	1.5	0.5	0.6	0.6	0.6	0.7	0.7	0.0	5.3
Flyaway U/C												•
Wpn Sys Proc U/C												•

This budget line supports automation requirements for the Army Intelligence and Electronic Warfare Master Plan (AIMP). The AIMP uses capabilities from the Force Integration Masterplanner (FIM) to develop decision support aids that facilitate development and display of intelligence force structure, architectures and systems. The FIM is a computer-based system of systems using commercial-off-the-shelf (COTS) software to support PPBES decision making in the Intelligence and Electronic Warfare (IEW) community. The AIMP is a publication mechanism that presents the IEW future vision to Army consumers over Intelink and Intelink-S.

JUSTIFICATION:

FY00 funds will be used to continue replacing proprietary and obsolete hardware with standard COTS UNIX platforms and software. This provides the potential for interoperability with other UNIX applications, reduces hardware maintenance costs, and provides significantly better processing capability. FY99 funds will also be used to acquire high speed product servers for Intelink & Intelink-S networks making the FIM products available to any Army consumer, world-wide. Hardware and software procured will support Headquarters, Department of the Army, and FIM field support sites at Fort Belvoir, Fort Huachuca, and Fort Monmouth.

		Exhibit P-4	I0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	erial No:					P-1 Item Nomencla	ture:	<u> </u>				
OTHER P	ROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				s	SHORTSTOP (VA800	00)		
Program Elements for Code B It	ems:			Code:	Other Related Prog	ram Elements:						
	64270	VDL18		В								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	11.0	5.0	5.8	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	11.0	5.0	5.8	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.8
Initial Spares												
Total Proc Cost	11.0	5.0	5.8	10.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	31.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The SHORTSTOP Electronic Protection System (SEPS) is a fully integrated Radio Frequency Countermeasure system which is designed to provide protection for personnel and high value assets against proximity fuzes. There are three configurations of the SHORTSTOP Electronic Protection System: a manpack system, a stand alone system, and a vehicle mounted system. SHORTSTOP will maximize tactical utility and provide protection against indirect fire. SHORTSTOP will be used by Infantry, Engineering, Armor, Field Artillery and Intelligence units to enhance survivability.

JUSTIFICATION: FY97/98/99 funding supports an Urgent Requirement to provide SHORTSTOP vehicle mounted systems to Korea and Kuwait.

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREM				m Nomenclature: SHORTSTOP (VA	.8000)		Weapon System	Type:	Date: Feb	ruary 1999
OPA	ID	Communications	FY 98	Since Equipment		FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCo
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware (SEPS)	В	5240	30	175	8400	48	175						
Hardware (Antennas)					384	48	8						
Government Engineering Support		169			350								
System Test/Evaluation		100			225								
Fielding/Contractor Logistics Support		150			270								
Program Management		121			344								
ΓΟΤΑL		5780			9973								

								Date:		-
	P-5a, Budget Procurement	Weapon Syst			D. d. Line Hear	Norman alatuu		'	February 1	999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics		Weapon Syst	.етт туре:		P-1 Line item	n Nomenclature	re: SHORTSTOP (VA8	.8000)		ľ
Equipment WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years	+	and Type		+	Delivery	Each	\$000	Now?	Avail	
Hardware							1	'		
FY97	Condor/Whittaker Electronic Systems, Simi Valley, CA	SS/FFP	CECOM	Dec-97	Mar-99	14	290	No		
FY98	Condor/Whittaker Electronic Systems, Simi Valley, CA	Option	СЕСОМ	Apr-98	Jun-99	30	175	No		
FY99	Condor/Whittaker Electronic Systems, Simi Valley, CA	SS/FFP	CECOM	Apr-99	Jun-00	48	175	No		
REMARKS:										

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		Exhibit P-4	40, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/Se	erial No:					P-1 Item Nomenclat	ture:	-				
OTHER PF	ROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipment	t		1	CC	DUNTERINTELLIGE	NCE/SECURITY CO	UNTERMEAS (BL5	283)	
Program Elements for Code B Ite	ems:			Code:	Other Related Progr	am Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	7.3	0.0	2.3	1.7	1.7	2.4	2.4	2.4	2.4	2.5	0.0	25.1
Less PY Adv Proc		 										
Plus CY Adv Proc		 										
Net Proc (P-1)	7.3	0.0	2.3	1.7	1.7	2.4	2.4	2.4	2.4	2.5	0.0	25.1
Initial Spares		 										
Total Proc Cost	7.3	0.0	2.3	1.7	1.7	2.4	2.4	2.4	2.4	2.5	0.0	25.1
Flyaway U/C		<u> </u>										
Wpn Sys Proc U/C		 I										

		Exhibit P-4	10, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	<u> </u>		,		
OTHER F	PROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				SENTI	NEL (FAAD GBS) (V	VK5053)		
Program Elements for Code B I	Items:			Code:	Other Related Prog	gram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	34	28	27	24	11	3	3	3	8	9	46	196
Gross Cost	133.5	68.9	58.9	57.9	38.4	24.4	23.8	26.2	35.1	37.9	136.5	641.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	133.5	68.9	58.9	57.9	38.4	24.4	23.8	26.2	35.1	37.9	136.5	641.5
Initial Spares	2.3	3.6	5.3	7.2	4.4	2.1	3.2	0.7	3.9	2.8	2.5	38.0
Total Proc Cost	135.8	72.5	64.2	65.1	42.8	26.5	27.0	26.9	39.0	40.7	139.0	679.5
Flyaway U/C	3.0	2.2	1.9	2.2	3.0	7.2	7.3	7.8	4.1	3.9	2.7	2.8
Wpn Sys Proc U/C	3.9	2.5	2.2	2.4	3.5	8.1	7.9	8.7	4.4	4.2	3.0	3.3

DESCRIPTION: Sentinel AN/MPQ-64 consists of a radar-based sensor with its prime mover/power, identification friend or foe (IFF), and FAAD Command, Control, and Intelligence (C2I) interfaces. The sensor is an advanced three dimensional battlefield X-Band air defense phased-array radar with an instrumented range of 40 km. The Sentinel is capable of operating day or night, in adverse weather conditions, in the battlefield environments of dust, smoke, aerosols, and enemy countermeasures. It provides 360 degree azimuth coverage for acquisition tracking. The Sentinel contributes to the digital battlefield by automatically detecting, classifying, identifying, and reporting targets (cruise missiles, unmanned aerial vehicle, rotary wing and fixed wing aircraft). Targets can be hovering to fast moving, as well as from nap of the earth to the maximum engagement altitude of Short Range Air Defense (SHORAD) weapons. Very accurate and quick reacting, Sentinel acquires targets sufficiently forward of the Forward Line of Troops to improve SHORAD weapons reaction time and allow engagement at optimum ranges. The Sentinel integrated IFF reduces the potential for fratricide of Army Aviation and Air Force aircraft. Highly mobile and reliable, the Sentinel Anti-Radiation Missile and Electronic Countermeasures resistant performance supports Army Corps and Divisional Air Defense operations across the full spectrum of conflict.

JUSTIFICATION: FY 00 and FY 01 funds provide production hardware for two National Guard units (2-174 ADA and 2-263 ADA).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ But OTHER F Communications	ROCUREN	IENT / 2 /		SENT	em Nomenclature: TINEL (FAAD GBS			Weapon System	Туре:		ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
HARDWARE SENTINEL SYSTEMS		45012	27	1667	45576	24	1899	29385	11	2671	18197	3	6066
TRAINERS/TRAINING		855			687			487			389		
ENGINEERING CHANGE ORDERS		3483			950			188			29		
SYSTEM TEST & EVALUATION		136											
INTERIM CONTRACTOR SUPPORT		924			2330			1715					
ENGINEERING SUPPORT LABOR SIMULATIONS CONTRACTOR		1388 710 2138			1297 471 1782			1451 446 1234			1480 455 279		
FIELDING		605			1537			783			800		
SYSTEM SOFTWARE CHANGES		894			655			638			650		
PROGRAM MGT/ADMIN LABOR IN-HOUSE LABOR CONTRACTS		1048 1665			1039 1553			1018 1034			1031 1052		
Subtotal - PROGRAM MGT/ADMIN		2713			2592			2052			2083		
TOTAL		58858			57877			38379			24362		

Electronics Contractor and Location	Weapon Syst			P-1 Line Item I	Nomenclature:			ebruary ⁻	
Contractor and Location					SENT	INEL (FAAD GBS)			
	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Is: Date
	and Type			Delivery	Each	\$000	Now?	Avail	
Raytheon Co. Forest, MS	C/Option	AMCOM	Feb-98	May-99	27	1667	Yes		
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	SS/FP	AMCOM			3				
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		Exhibit P-4	I0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	•				
OTHER F	PROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				SEI	NTINEL MODS (WK	5057)		
Program Elements for Code B I	Items:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	0.0	7.1	9.5	20.1	24.7	26.3	26.5	114.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	7.1	9.5	20.1	24.7	26.3	26.5	114.2
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	7.1	9.5	20.1	24.7	26.3	26.5	114.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Sentinel consists of a radar-based sensor system with its prime mover/power, identification friend or foe, and FAAD Command, Control, and Intelligence (C2I) interfaces. Sentinel Modernization Program provides Sentinel several new capabilities: 1) increased range against small and advanced target, 2) performs target recognition, and 3) passively acquires/classifies targets.

Sentinel Modernization Program is a material enhancement of the Sentinel system. The system provides forward area "radar protection" for maneuver forces and critical assets. The data acquired and processed by the system (Sentinel Modernization Program and FAAD C2I) provides the commander an integrated battlefield picture and cueing/target identification information for Short Range Air Defense (SHORAD) assets. Modernization Program will enable Sentinel to cue SHORAD weapons against advanced targets, thereby increasing engagements of advanced cruise missiles and unmanned aerial vehicles significantly.

JUSTIFICATION: FY 01 funds provide for procurement of 23 transmitter retrofit kits.

	Exhibi	t P-40M Budget It	tem Justific	ation Sheet			Date		February 1999		
Appropriation / Budget Act	tivity/Serial No.				P-1 Item Nomenclatu	ire					
OTH	HER PROCUREMENT / 2 / Communication	s and Electronics Equipment					SEN	TINEL MODS (WK5	057)		
Program Elements for Coo	de B Items		Code	Other Related Progra	am Elements						
Description		Fiscal Years									
OSIP NO.	Classification	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
Acquisition Ran	nge Improvements		•		_	-				-	
111-11	Operational	0.0	0.0	0.0	7.1	9.5	14.3	19.1	20.6	19.5	90.0
Improved Targe	et Classification										
111-12	Operational	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.4
Adjunct Sensor	•										
111-13	Operational	0.0	0.0	0.0	0.0	0.0	5.4	5.6	5.7	7.0	23.8
Totals		0.0	0.0	0.0	7.1	9.5	20.1	24.7	26.3	26.5	114.1

INDIVIDUAL MODIFICATION Date

MODIFICATION TITLE: Acquisition Range Improvements 111-11

MODELS OF SYSTEMS AFFECTED: AN/MPQ-64

DESCRIPTION / JUSTIFICATION:

Sentinel Modernization Program funds system improvements that increase acquisition range against smaller, more lethal and more advanced targets. Funds provide Sentinels a redesigned Power Amplifier Module, enhanced waveforms (with hardware modifications), a low altitude search raster and a 20 RPM rotation rate. These improvements are essential to increase power, duty cycle, bandwidth and stability in order to increase acquisition range against smaller, advanced targets. Without these improvements, maneuver forces and critical assets are at risk if confronting cruise missile or UAV aggressors.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Acquisition Range Improvements Planned Accomplished

Transmitter Contract Award 2Q 01
First Kit Applied 1Q 03
Waveforms Contract Award 1Q 02
First Kit Applied 1Q 03

Note: Transmitter/Waveform kits are being coordinated so that both kits are installed simultaneously to minimize trips to depot for retrofits.

Installation Schedule:

Inputs	
Outputs	

Pr Yr		FY ′	1999			FY 2	2000			FY 2	2001			FY 2	2002			FY	2003	
Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
																	2		6	6
																	2		6	6

		FY 20	004			FY 2	005			FY 20	006			FY 2	2007		То	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Complete	
Inputs	6	6	6	2	6	6	6	6	6	6	6	6	6	6	6	6	21	127
Outputs	6	6	6	2	6	6	6	6	6	6	6	6	6	6	6	6	21	127

METHOD OF IMPLEMENTATION: Contractor's Facility ADMINISTRATIVE LEADTIME: PRODUCTION LEADTIME: (Trans / Wave) 16/12 Months

Contract Dates: FY 1999 FY 2000 FY 2001 2Q 01

Delivery Date: FY 1999 FY 2000 FY 2001

February 1999

				INDIVIDUA	L MODIF	ICATIO	N							Date		Februa	ary 1999	
MODIFICATION TITLE (Cont):	Ac	quisition Ra	nge Ir	mproveme	ents 111	-11												
FINANCIAL PLAN: (\$ in Millions)	FY 1998	ī																
	and Prior	FY 1999	F	FY 2000	FY 20	001	FY 20	002	FY 2	003	FY 2	004	FY 2	005	TO)	TOT	AL
	Qty \$	Qty \$	Qt		Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E PROCUREMENT Kit Quantity Installation Kits Installation Kits, Nonrecurring		2.	8	5.1		6.4		2.1										16.4
Equipment Transmitter Waveform Equipment, Nonrecurring Engineering Change Orders Data Changes to Equip Pubs Training Equipment Training Support Equipment Product Management Interim Contractor Support					23 23	6.0 6.0 0.3 0.2 0.1	28 14 14	8.1 3.8 4.3 0.3 0.3 0.1	43 21 22	12.2 5.6 6.6 0.1 0.2 0.2		16.4 7.3 9.1 0.1 0.2 0.2 0.3	58 29 29	17.7 8.0 9.7 0.1 0.2 0.4	34	16.4 2.8 13.5 0.1 0.2 0.4 1.9	124 127	76.7 33.5 43.2 1.0 1.1 1.1 1.3
Installation of Hardware FY 1998 & Prior Eqpt Kits FY 1999 Eqpt Kits FY 2000 Eqpt Kits FY 2001 Eqpt Kits FY 2002 Eqpt kits FY 2003 Eqpt kits FY 2004 Eqpt kits FY 2005 Eqpt kits FY 2005 Eqpt kits									14	0.0	20	0.0	2 28	0.0 0.1	29 34	0.2 0.2		0.0 0.1 0.1 0.2 0.2
Total Installment					-		-		14	0.0	20	0.0	30	0.1	63	0.4		0.6
Total Procurement Cost						7.1		9.5		14.3		19.1		20.6		19.5		90.0

INDIVIDUAL MODIFICATION Date February 1999 Improved Target Classification 111-12 MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED: AN/MPQ-64 DESCRIPTION / JUSTIFICATION: Sentinel Modernization funds target classification software improvements that provide the capability for high fidelity and a high degree of certainty target classification and recognition. Funds provide existing and future systems with hostile aircraft identification (HAIDE), high range resolution waveform (HRR), and corresponding FAAD C2 upgraded target classification reporting. These improvements are essential in order to increase target recognition and classification capabilities. Without these improvements, maneuver forces and critical assets are at risk if confronting cruise missile or UAV aggressors. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Planned Accomplished Improved Target Classification Planned Contract Award 2Q 03 Software Fix Implemented 3Q 04 Installation Schedule: Pr Yr FY 1999 FY 2000 FY 2001 FY 2002 FY 2003 3 3 Totals 1 1 Inputs Outputs FY 2004 FY 2005 FY 2006 FY 2007 To Totals Complete 133 133 Inputs

ADMINISTRATIVE LEADTIME:

FY 2000

FY 2000

133

Depot Field Team

FY 1999

FY 1999

Outputs

Contract Dates:

Delivery Date:

METHOD OF IMPLEMENTATI

18

Months

PRODUCTION LEADTIME:

FY 2001

FY 2001

133

					IN	IDIVIDU.	AL MOD	IFICATION	N							Date		Febru	ary 1999	
MODIFICATION TITLE (Cont):		lm	orove	d Targe	t Clas	sificatio	n 111-	12												
FINANCIAL PLAN: (\$ in Millions)																				
	FY 19	998																		
	and F	Prior	FY	1999		2000	FY	2001		2002	FY 2	2003		2004		2005		C	TOTA	٩L
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E								2.1		1.9										4.0
PROCUREMENT																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment											133	0.3							133	0.3
Equipment, Nonrecurring																				
Engineering Change Orders												0.0								0.0
Data																				
Training Equipment																				
Support Equipment																				
Product Management												0.0								0.0
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt Kits																				
FY 1999 Eqpt Kits																				
FY 2000 Eqpt Kits																				
FY 2001 Eqpt Kits																				
FY 2002 Eqpt kits																				
FY 2003 Eqpt kits													133						133	
FY 2004 Eqpt kits																				
FY 2005 Eqpt kits																				
TC Equip-Kits																				
Total Installment													133						133	
Total Procurement Cost												0.4								0.4

INDIVIDUAL MODIFICATION Date February 1999 Adjunct Sensor MODIFICATION TITLE: MODELS OF SYSTEMS AFFECTED: AN/MPQ-64 DESCRIPTION / JUSTIFICATION: Sentinel Modernization funds provide the capability to passively detect, acquire, and track targets and denies the enemy valuable information on Sentinel location and disposition. Funds provide a passive sensor, that is integrated with the radar and is dual mode capable. This improvement is essential in order to have a passive acquisition capability. Without this improvement, Sentinel assets, maneuver forces and critical assets could be unnecessarily jeopardized or limited in use based on use of current active mode. These funds allow for fielding of the adjunct sensor capability to Force Package units. DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES: Accomplished

Planned	F

Adjunct Sensor

Planned Contract Award 3Q 03 First Sensor Applied 3Q 05

Installation Schedule:																				
	Pr Yr		FY 1	999			FY 200	0		FY 20	001			FY 2	2002			FY:	2003	
	Totals	1	2	3	4	1	2	3 4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs																				
Outputs																				
		·		·	-		·										•			
		FY 2004																		
		FY 20	004			FY 20	05		FY 20	006			FY 2	2007			To			Totals
	1	2 PY 20	3	4	1	FY 20 2	05 3	4 1	FY 20	3	4	1	FY 2	2007	4	Co	To omplete			Totals
Inputs	1	2	3	4	1	FY 20 2		4 1	FY 20 2 6		4	1	FY 2 2	2007	4	Co				Totals 38
Inputs Outputs	1	2 PY 20	3	4	1	FY 20 2	3	4 1	2		4 6 6	1	FY 2 2 6 6	2007	4	Co	omplete			
	1 IENTATIO	2	3	4 ield Tea	1 m	2	3 6 6	4 1 ELEADTIME	2 6 6		ŭ	1	2 6	3	4 I LEAD		omplete 14 14			38

Delivery Date: FY 1999 FY 2000 FY 2001

					IN	DIVIDU	AL MOE	DIFICATI	ON						[Date		Febru	ary 1999	
MODIFICATION TITLE (Cont):		Ad	junct S	ensor	111-13	3														
FINANCIAL PLAN: (\$ in Millions)																				
	FY 19										,				•					
	and P		FY 1			2000		2001		2002		2003	FY 2		FY 2		T		TOT	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E				4.0						6.0										10.0
PROCUREMENT																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment											9	5.3		5.4	9	5.5	11	6.9	38	23.2
Equipment, Nonrecurring												0.0		0.1		0.1				0.2
Engineering Change Orders												0.1		0.1		0.0		0.0		0.2
Data														0.1		0.1		0.1		0.2
Training Equipment																				
Support Equipment																				
Product Management																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt Kits																				
FY 1999 Eqpt Kits																				
FY 2000 Eqpt Kits																				
FY 2001 Eqpt Kits																				
FY 2002 Eqpt kits																				
FY 2003 Eqpt kits															6		3		9	
FY 2004 Eqpt kits																	9		9	
FY 2005 Eqpt kits																	9		9	
TC Equip-Kits																	11		11	
Total Installment											1				6		32		38	
Total Procurement Cost												5.4		5.6		5.7		7.0		23.8

		Exhibit P-4	10, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	•				
OTHER F	PROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				TARGET LOCATI	ON OBSERVATION	SYSTEM (K38400)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	249											249
Gross Cost	18.6	2.3	5.9	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	18.6	2.3	5.9	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.6
Initial Spares												
Total Proc Cost	18.6	2.3	5.9	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	38.6
Flyaway U/C	0.060											0.046
Wpn Sys Proc U/C	0.076				_							0.050

DESCRIPTION: The K38400, AN/PLQ-8 Target Location Observation System (TLOS) is an active or passive, day or night sight. It is a target acquisition system designed to detect threat Optical and Electro-Optical Systems. The TLOS can be used as a covert illuminator and fire direction pointer.

JUSTIFICATION: There are no FY 2000 or FY 2001 funds.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bud OTHER F Communications	ROCUREM and Electr	IENT / 2 /		TARG	em Nomenclature: ET LOCATION OE SYSTEM (K38-	SERVATION		Weapon System	Type:		ruary 1999
OPA	ID		FY 98			FY 99	1		FY 00			FY 01	
Cost Elements	CD		Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AN/PLQ-8 (K38400) TLOS													
Government Engineering Support Program Management Support Fielding Contractor Engineering Support Engineering Change Orders Data/Tech Pubs Interim Contractor Support Testing		1272 266 159 512 31 99 2499			322 114 391 181 797 50								
Enhanced TLOS (ETLOS) Test Units/Closeout		876											
ETLOS Reprogramming Action Required *					9900								
TOTAL		5844			11755								
* The Enhanced TLOS (ETLOS) version was cancelled in FY98. The \$9.9m in FY99 will be used to procure DCSOPS/USAIC higher priority night vision devices.													

								Date:				
		Exhibit P-4	0, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	-				
OTHER P	PROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				NIGHT	VISION DEVICES (KA3500)		
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												<u> </u>
Gross Cost	1391.1	112.0	58.8	43.3	20.9	28.9	29.9	29.1	56.9	102.7	Continuing	Continuing
Less PY Adv Proc												<u> </u>
Plus CY Adv Proc												<u> </u>
Net Proc (P-1)	1280.4	112.0	58.8	43.3	20.9	28.9	29.9	29.1	56.9	102.7	Continuing	Continuing
Initial Spares	5.2	2.7	0.7	5.0	2.9	2.9	2.9	3.0	3.5	3.4	Continuing	Continuing
Total Proc Cost	1285.6	114.7	59.5	48.2	23.8	31.8	32.8	32.1	60.4	106.1	Continuing	Continuing
Flyaway U/C			-									 L
Wpn Sys Proc U/C												

DESCRIPTION: Night Vision Devices (KA3500) is a summary budget line. There are five subsidiary lines which are: K36400 Night Vision, AN/PVS-7/14 AID; B53800 AN/PVS-6 Mini Eyesafe Laser Infrared Observation System (MELIOS); K35000 AN/PAQ-4 Infrared Aiming Light (IAL); K31300 AN/VAS-5 DVE; K31100 AN/PED-1 Lightweight Laser Designator/Rangefinder (LLDR) (1): The AN/PVS-7 is a lightweight, night vision goggle consisting of a monocular objective lens assembly, one state-of-the-art Third Generation Image Intensifier tube, and two eyepiece lens assemblies integrated into a housing which is affixed to the user's head or helmet. The AN/PVS-14 Monocular night vision device is a variant of the AN/PVS-7 in that it has only a single lens assembly. The AN/PVS-7/14 is used by individual soldiers at night to perform Combat, Combat Support, and Combat Service Support operations. (2) The AN/PVS-6 MELIOS is a hand-held, eyesafe laser rangefinder with an integrated compass and vertical angle measurement capability. (3) The AN/PAQ-4 IAL is a lightweight, weapon mounted and boresighted aiming light. The aiming light output is visible only when used with a night vision goggle, such as the AN/PVS-7. (4) The K31300 AN/VAS-5 DVE is an uncooled thermal imaging system developed for use on combat and tactical wheeled vehicles. (5) The K31100 AN/PED-1 Lightweight Laser Designator/Rangefinder (LLDR) is a modular system designed for day/night all weather target acquisition, precise location, and designation for engagement by a variety of munitions. Through FY98, this roll line also includes K22900 AN/PAS-13 Thermal Weapon Sight (TWS), K38400 AN/PLQ-8 Target Location and Observation System (TLOS), K38300 Long Range Advanced Scout Surveillance System (LRAS3), and K30800 AN/PVH-1&2 Lightweight Video Reconnaissance System (LVRS).

JUSTIFICATION: The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PVS-7/14, the AN/PED-1 LLDR and the AN/VAS-5 DVE. The FY 2000 and FY 2001 funds will procure AN/PVS-7/14, AN/PED-1 and AN/VAS-5 systems with the latest technology for fielding to Special Operations Forces (75th Rangers, 82nd Airborne, 101st Air Assault, 10th Mountain, 2nd and 25th Infantry, and Scout Battalions).

Exhibit P-5, Weapon		Appropriation/ Bud	dget Activity				m Nomenclature:			Weapon System	Туре:	Date: Febr	uary 1999
OPA Cost Analysis		Communications						(. 00.	ua.y 1000
OPA	ID		FY 98			FY 99			FY 00			FY 01	
	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
NIGHT VISION, AN/PVS-7 AID INFRARED AIMING LIGHT, AN/PAQ-4/PEQ-2 NIGHT VISION LIGHTWEIGHT LASER MARKEI NIGHT VISION DRIVER'S VISION ENHANCER NIGHT VISION, AN/PVS-6 MELIOS		37351 16398 5004	8705 14780 250	\$	37532 5984	7194 5000	\$000	19017 1960 6262	4550 1500 14	1	26953 7145 1957	7321	\$000
* Unit costs for each item are contained on their individual P5 sheets to follow.													
TOTAL		58753			43516			27239			36055		

		Enhibit D.	IO Decimal	 	1 ! O ! 1			Date:				
		EXHIBIT P-4	o, Buaget	item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	_				
OTHER F	PROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				NIGHT V	ISION, AN/PVS-7 AI	D (K36400)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
						,						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	109421	30179	8705	7194	7948	7441	7740	7524	8901	11771	Continuing	Continuing
Gross Cost	699.7	83.3	37.4	37.5	19.0	27.0	28.0	27.2	32.1	42.7	Continuing	Continuing
Less PY Adv Proc												<u> </u>
Plus CY Adv Proc												<u>[</u>
Net Proc (P-1)	699.7	83.3	37.4	37.5	19.0	27.0	28.0	27.2	32.1	42.7	Continuing	Continuing
Initial Spares												<u>[</u>
Total Proc Cost	699.7	83.3	37.4	37.5	19.0	27.0	28.0	27.2	32.1	42.7	Continuing	Continuing
Flyaway U/C	0.005	0.003	0.004	0.003	0.003	0.003	0.003	0.003	0.003	0.003		
Wpn Sys Proc U/C	0.006	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004		

DESCRIPTION: K36400 Night Vision, AN/PVS-7 AID; The AN/PVS-7 is a lightweight, night vision goggle consisting of a monocular objective lens assembly, one state-of-the-art Third Generation Image Intensifier tube, and two eyepiece lens assemblies integrated into a housing which is affixed to the user's head or helmet. The AN/PVS-14 Monocular Night Vision Device (MNVD) is a variant of the AN/PVS-7 in that it has only a single eyepiece lens assembly. The AN/PVS-7/14 is used by individual soldiers at night to perform Combat, Combat Support, and Combat Service Support operations. The 25mm Third Generation Image Intensifier tube is a direct replacement for the second generation Image Intensifier tube.

JUSTIFICATION: The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PVS-7/14. The FY 2000 and FY 2001 funds will procure AN/PVS-7/14 systems with the latest technology for fielding to Special Operations Forces (75th Rangers, 82nd Airborne, 101st Air Assault, 10th Mountain, 2nd and 25th Infantry, and Scout Battalions).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bud OTHER P Communications	ROCUREM and Electro	ENT/2/		NIGHT \	em Nomenclature: /ISION, AN/PVS-7			Weapon System	Type:		ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AN/PVS-7 Night Vision Goggle	Α	26172	8705	3	25885	7194	4	16262	4550	4	24031	7321	;
25MM GEN III Image Tubes		6000	1932	3	8000	2326	3						
Rail Grabbers		600	6376										
Government Engineering Support Project Management Admin Fielding Contractor Engineering Support ECO Data/Tech Pubs Testing		907 477 1757 866 539 33			794 393 1669 702 27 42 20			674 321 1137 547 17 39 20			553 272 1614 403 23 37 20		
TOTAL		37351			37532			19017			26953		
* Unit costs in FY99 and FY00 are consistent with FY98 and subsequent year prices. It appears to be greater because additional helmet mounts are being purchased in FY99 to retrofit previously purchased systems.													

	Exhibit P-5a, Budget Procureme	nt History a	nd Planning					Date:	February 1	1999
Appropriation / Budget Activity/Serial No:	-	Weapon Syst			P-1 Line Item	Nomenclature	e:			
OTHER PROCUREMENT / 2 / Communications and Equipment	d Electronics					NIGHT	VISION, AN/PVS-7	AID (K364	-00)	
VBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Is:
iscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
N/PVS-7 Night Vision Goggle										
Y 98	Litton, Tempe, AZ		CECOM	Jun-98	Apr-99	5026	3	Yes		
Y 98	ITT, Roanoke, VA		CECOM	Jun-98	Apr-99	3679	3			
Y 99	Litton, Tempe, AZ		CECOM	Jan-99	Apr-00	4316	4			
Y 99	ITT, Roanoke, VA		CECOM	Jan-99	Apr-00	2878	4			
Y 00	TBS	C/FP	CECOM	Jan-00	Apr-01	4550	4			
TY 01	TBS	C/FP	CECOM	Jan-01	Apr-02	7321	3			
25MM GEN III Image Tubes										
FY 98	Litton, Tempe, AZ	Option	CECOM	Jun-98	Apr-99	1358	3	Yes		
Y 98	ITT, Roanoke, VA		CECOM	Jun-98	Apr-99	574	3			
TY 99	Litton, Tempe, AZ		CECOM	Jan-99	Apr-00	1395	3			
FY 99	ITT, Roanoke, VA		CECOM	Jan-99	Apr-00	931	3			

COST ELEMENTS F F F F F F F F F									P-1	Item I	Nome	encla													Date	э:						_	
COST ELEMENTS R FY FY		FY 00 / FY 01 BUDGET PI	RODU	UCTION S	SCHE	DULE											S-7 A	ID (K3	36400))									Febr	uary 1	999		
COST ELEMENTS R FY R FY R FY R FY R FY R FY R FY R													Fis	scal	Year										Fi								L
COST ELEMENTS R R R R R R R R R R R R R				E)/	-		_	_	_		_		-				enda	r Ye						١.	T =		_		<u>rear</u>	-		_	A
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1 FY 98 A 3079 0 5079 1 A 5026 0 5026 1 A 1 FY 99 A 5026 0 5026 1 A 1 FY 99 A 2878 0 2878 1 A 5026 0 5026 1 A 1 FY 99 A 2878 0 2878 A 5026 0 5026 1 A 1 FY 99 A 2878 A 5026 0 5026 1 A 1 FY 99 A 2878 A 5026 0 5026 1 A 1 FY 99 A 2878 A 5026 1 A 1 FY 99 A 2878 A 5026 1 A 1 FY 99 A 2878 A 5026 1 A 1 FY 99 A 2878 A 5026 1 A 1 FY 99 A 2878 A 5026 1 A 1 FY 99 A 2878 A 5026 1 A 1 FY 99 A 2878 A 5026 1 A 1 FY 99 A 2878 A 5026 1 A 1 FY 99 A 2878 A 5026 1 A 1 FY 99 A 2878 A 5026 1 A 1 FY 99 A 2878 A 5026 1 A 1 FY 99 A 1335 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A					OTH	57508	30448	27060	1325	1286	1255	1295	1295	1295	1305	1355	1356	1306	1433	1533	2522	1256	752	1007	1007	1057	1059	917	700	513	231		
2 FY 98 A 50.6 0 50.6 1 FY 99 A 2878 0 2878 1 FY 99 A 2878 0 2878 1 FY 99 A 2878 0 2878 1 FY 99 A 2878 0 2878 1 FY 99 A 2878 0 2878 1 FY 99 A 2878 0 2878 1 FY 99 A 2878 0 2878 1 FY 99 A			1														Α										141	141	141	271	272	272	2441
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5 FY 98 A 1358 0 1358 0 1358 0 1 1				97 & Pr	OTH	1294	712	582	97	97	97	97	97	97																			
4 FY 99 A 931 0 931 0 1395 0 1395 0 1395 0 1 1395 0			4	FY 98	Α	574	0	574									Α										47	47	47	47	48	48	290
5 FY99 A 1395 O 1395 U 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			5	FY 98	Α	1358	0	1358									Α										113	113	113	113	114	114	678
4 FY 99 M 1303 0 1303			4	FY 99	Α	931	0	931																Α									931
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		Exhibit P-4	0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:					
OTHER F	PROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				INFRARED A	IMING LIGHT, AN/P.	AQ-4 (K35000)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	17730	20847	4600	5000	1500							49677
Gross Cost	9.5	11.1	16.4	6.0	2.0	0.0	0.0	0.0	0.0	6.9	0.0	51.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	9.5	11.1	16.4	6.0	2.0	0.0	0.0	0.0	0.0	6.9	0.0	51.8
Initial Spares												
Total Proc Cost	9.5	11.1	16.4	6.0	2.0	0.0	0.0	0.0	0.0	6.9	0.0	51.8
Flyaway U/C	0.001	0.001	0.001	0.001	0.001					0.001		0.001
Wpn Sys Proc U/C	0.001	0.001	0.001	0.001	0.001					0.001		0.001

DESCRIPTION: K35000 AN/PAQ-4 Infrared Aiming Light (IAL); The AN/PAQ-4 IAL is a lightweight, weapon mounted and boresighted infrared aiming light. The aiming light output is visible only when used with a night vision goggle, such as the AN/PVS-7. This SSN also includes the AN/PEQ-2A Infrared Target Pointer/Infrared Aiming Light, a device originally developed for the U. S. Navy. The AN/PEQ-2A program is managed by the Army.

JUSTIFICATION: The FY 2000 funds will procure additional required AN/PEQ-2A aiming lights to fill critical fielding shortfalls.

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREM and Electro			INFRAR	m Nomenclature: RED AIMING LIGH (K35000)			Weapon System	Type:		ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AN/PEQ-2A Infrared Target Pointer/IAL AN/PAQ-4C Infrared Aiming Light (IAL) Brackets and Accessories		6398 2787 7213	5280 9500	*	5984	5000	*	1960	1500	*			
TOTAL		16398			5984			1960					
* No unit price displayed for FY98 AN/PAQ-4Cs due to rounding, as unit price is actually \$350.													

								Date:		
Exhibit	P-5a, Budget Procurement I	-	_					ı	February 1	1999
Appropriation / Budget Activity/Serial No:		Weapon Syst	em Type:		P-1 Line Item	n Nomenclatur	e:			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment						INFRARED	AIMING LIGHT, AN	I/PAQ-4 (K	(35000)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	Date
AN/PEQ-2A Infrared Target Pointer/IAL										
FY 98	Insight Technology, Nashua, NH	C/IDIQ	CECOM	Sep-98	Feb-99	5280	VAR	Yes	1 '	1
FY99	Insight Technology, Nashua, NH	C/IDIQ	CECOM	Mar-99		5000	VAR	'	1 '	1
FY00	Insight Technology, Nashua, NH		CECOM		Nov-00				'	'
AN/PAQ-4C Infrared Aiming Light (IAL)									1 '	
FY 98	Insight Technology, Nashua, NH	C/IDIQ	СЕСОМ	Nov-98	Apr-99	9500		Yes	1 '	'
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	1	FY 00	Α	1500	0	1500																									1500
AN/PAQ-4 Infrared Aiming Light (IAL)																															
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		Exhibit P-4	0, Budget I	tem Justific	cation Sheet					February 1999									
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ure:												
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment							NIGHT VISION DRIVER'S VISION ENHANCER (D (K31300)												
Program Elements for Code B I	tems:			Code:	de: Other Related Program Elements:														
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog							
Proc Qty						104	108	110	269	396	Continuing	Continuing							
Gross Cost	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	24.8	29.0	Continuing	Continuing							
Less PY Adv Proc																			
Plus CY Adv Proc																			
Net Proc (P-1)	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	24.8	29.0	Continuing	Continuing							
Initial Spares																			
Total Proc Cost	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0	24.8	29.0	Continuing	Continuing							
Flyaway U/C																			
Wpn Sys Proc U/C						0.019	0.019	0.018	0.019	0.019									

DESCRIPTION: K31300, AN/VAS-5 Driver's Vision Enhancer (DVE); The DVE is an uncooled thermal imaging system developed for use on combat and tactical wheeled vehicles. DVE facilitates fast paced "Own The Night" force projection operations by providing enhanced mobility during darkness and in degraded battlefield conditions (smoke, dust, fog).

JUSTIFICATION: The "Own The Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/VAS-5 DVE. Funds in FY 2001 will be used to initiate procurement of DVE systems to be fielded on TOW and HMMWV vehicles in the 82nd Airborne Division.

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREN			NIGH	em Nomenclature: HT VISION DRIVE ENHANCER (D (K	R'S VISION		Weapon System	Type:	Date: Feb	ruary 1999
OPA	ID	Communications	FY 98	omeo Equipment		FY 99	ENHANCER (D (N	.3 1300)	FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Cost Liements	OD	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AN/VAS-5 Driver's Vision Enhancer (DVE)	А	+	240	Ţ G G G	Ţ,	20011	Ţ Ţ	Ţ G G G	200	Ţ,	1622		
Government Engineering Support Project Management Admin Fielding											103 57		
Contractor Engineering Support ECO/ECP Data/Technical Pubs											24 12 10		
CLS Testing											94 35		
TOTAL											1957		

Exhibit I	P-5a, Budget Procurement I							Date: F	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon Syste	em Type:			n Nomenclatur GHT VISION D	e: PRIVER'S VISION EI	NHANCER	≀ (D (K313	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First		Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type	<u> </u>		Delivery	Each	\$000	Now?	Avail	
AN/VAS-5 Driver's Vision Enhancer (DVE)										1
REMARKS:	TBS	C/FP	CECOM	Jan-01	Feb-02	102	16	Yes		

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OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t		<u> </u>		NIGHT VISI	ON, AN/PVS-6 MELI	IOS (B53800)		
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
	Drior Vooro	EV 1007	EV 1000	EV 1000	EV 2000	EV 2004	EV 2002	EV 2002	EV 2004	EV 2005	To Complete	Total Drog
D Ot .	Prior Years	FY 1997 464	FY 1998 250	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	8005											8719
Gross Cost	76.5	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	76.5	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.5
Initial Spares												
Total Proc Cost	76.5	10.0	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	91.5
Flyaway U/C	0.010	0.018	0.018									0.010
Wpn Sys Proc U/C	0.010	0.022	0.020									0.011

DESCRIPTION: B53800 AN/PVS-6 Mini Eyesafe Laser Infrared Observation System (MELIOS). The AN/PVS-6 MELIOS is a hand-held, eyesafe laser rangefinder with an integrated compass and vertical angle measurement capability.

JUSTIFICATION: No FY 2000 or FY 2001 Funds.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	ROCUREM and Electro	IENT / 2 /		NIGHT VIS	em Nomenclature SION, AN/PVS-6 N	: MELIOS (B53800)		Weapon System	Туре:		ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AN/PVS-6 MELIOS	А	4020	250	16									
Ancillary Equipment for fielded MELIOS		984											
TOTAL		5004											

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	Exhibit P-5a, Budget Procurement	t History a Weapon Syst			D. d. Line Hear	*1			February 1	999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and	Electronics	Weapon Syst	.етт туре.		P-1 Line item	Nomenclatur NIGHT VI	re: ISION, AN/PVS-6 M	FLIOS (BE	53800)	!
Equipment WBS Cost Elements:	Contractor and Location	Contract	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs	Date	RFP Issue
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Fiscal Years AN/PVS-6 MELIOS		and Type		+	Delivery	Each	\$000	Now?	Avaii	
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REMARKS:										

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FY 00 / FY 01 BUDGET P	RODU	JCTION S	SCHE	DULE						NI	GHT \	VISIO	N, AN	/PVS-6	6 MEL	LIOS (I	B5380	00)									Febru	ary 19	999		
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AN/PVS-6 MELIOS	_						_			ш			\square	ш					_			_	<u> </u>		_	_	Ш			_	
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		Exhibit P-4	0, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:					
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t			Le	ONG RANGE ADVA	NCED SCOUT SUR	/EILLANCE S (K38:	300)	
Program Elements for Code B It	tems:			Code:	Other Related Progr	am Elements:						
0	604710A DL74			В								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					66	89	91	103	106	101	Continue	Continue
Gross Cost	0.0	0.0	0.0	0.0	43.2	48.0	45.6	50.3	51.7	53.9	Continue	Continue
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	43.2	48.0	45.6	50.3	51.7	53.9	Continue	Continue
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	43.2	48.0	45.6	50.3	51.7	53.9	Continue	Continue
Flyaway U/C					0.662	0.496	0.487	0.471	0.470	0.472	Continue	Continue
Wpn Sys Proc U/C					0.665	0.552	0.518	0.498	0.498	0.499	Continue	Continue

DESCRIPTION: The Long Range Advanced Scout Surveillance System (LRAS3) is a long range reconnaissance and surveillance system operable in both a stationary vehicle mounted configuration and in an autonomous dismounted configuration. The LRAS3 is a line-of-sight multi-sensor suite, which provides a real-time target detection, recognition, and identification capability to the scout 24 hours a day in all weather conditions. LRAS3 also determines far target location (FTL) coordinates for any target ranged to by the operator.

JUSTIFICATION: The Long Range Advanced Scout Surveillance System (LRAS3) program is one of the top priority systems of the US Armor School and Center and HQ TRADOC. Currently, US Army scouts do not have the necessary equipment to perform target acquisition and FTL functions "around the clock" and with sufficient performance capability to enable them to remain outside enemy engagement ranges. LRAS3 will utilize the Horizontal Technology Integration Second Generation FLIR (HTI SGF) thermal sensor, which will enable the scouts to function 24 hours a day in adverse weather and penetrate battlefield obscurants. LRAS3 will significantly increase the survivability of scout forces allowing them to continue their mission as the eyes of the commander in the battlefield. The FY 2000 and FY 2001 funds will initiate the procurement of LRAS3, with the first systems being fielded to the 1st Cavalry Division, part of the 1st Digitized Corps.

Exhibit P-5, Weapon OPA Cost Analysis			PROCURENT and Electr			LONG SL	em Nomenclature: RANGE ADVAN JRVEILLANCE S	CED SCOUT		Weapon System	Туре:		ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
K38300 LRAS3	В							39141	65	602	40013	87	460
Engineering Support Project Management Admin Engineering Change Orders Testing Fielding Interim Contractor Support								754 251 1612 915 550 43223			738 246 1382 362 715 4532		
Notes: Fielding includes: Initial Provisioning/ Consumable Spares, Training Equipment, New Equipment Training and Support.													

Exhibit	P-5a, Budget Procurement I							Date:	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon Syst	ет Туре:			n Nomenclatur RANGE ADV	re: /ANCED SCOUT SU	JRVEILLA	NCE S (K	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First		Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
K38300 LRAS3										
FY 00	To Be Selected		CECOM		Feb-01	65			Jun 99	Aug-99
FY 01	To Be Selected	C/FP	CECOM	Dec-00	Feb-02	87	460	1 '	1 '	1
REMARKS:										

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		Exhibit P-4	0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	8				
OTHER P	PROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				LTWT VIDEO R	ECON SYSTEM (L)	VVRS) (K30800)		
Program Elements for Code B I	Items:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	179	97	101	320	145	44	48	48	48	80	Continuing	Continuing
Gross Cost	4.5	2.7	4.8	8.3	3.4	1.2	1.3	1.4	1.4	2.7	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	4.5	2.7	4.8	8.3	3.4	1.2	1.3	1.4	1.4	2.7	Continuing	Continuing
Initial Spares												
Total Proc Cost	4.5	2.7	4.8	8.3	3.4	1.2	1.3	1.4	1.4	2.7	Continuing	Continuing
Flyaway U/C			-									
Wpn Sys Proc U/C		•										

DESCRIPTION: K30800, AN/PVH-1&2 Lightweight Video Reconnaissance System (LVRS) is a system designed to capture and transmit still video images through military radios. The images are captured with a portable AN/PVH-1 LVRS Out Station which transmits the captured image to the AN/PVH-2 LVRS Base Station for analysis and dissemination.

JUSTIFICATION: The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PVH-1&2 LVRS. The LVRS provides the first day/night image transmission capability between ground scouts and their higher headquarters, facilitating rapid target identification and analysis of key structures/terrain and other data critical to mission planning/execution. The FY 2000 and FY 2001 funds will procure this LVRS capability for fielding to Light Forces (101st Air Assault, 10th Mountain, 2nd and 25th Infantry, and Scout Battalions).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bud OTHER P Communications	ROCUREM	ENT / 2 /			m Nomenclature: DEO RECON SYS (K30800)			Weapon System	Туре:	Date: Feb	uary 1999
OPA	ID		FY 98			FY 99	(1.0000)		FY 00			FY 01	
Cost Elements	CD		Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AN/PVH-1&2 LVRS (Base & Out Stations)	Α	2872	101	28	3454	156	22	2451	141	17	861	46	19
Out Station Upgrade (Non Recurring Costs)		1355											
ECO for Joint Tactical Architecture Upgrade *					598								
Out Station Upgrade Retrofits **					2996	164	18						
Government Engineering Support		327			455			203			175		
Project Management Support		22			45			27			29		
Fielding Costs					143			56			56		
Interim Contractor Support ***		181			270			202			86		
Testing					380			497					
TOTAL		4757			8341			3436			1207		
Notes: * ECO was to reduce size and weight of the out station, allow use of smaller battery and meet Y2K mandates.													
** The recurring unit cost (\$18K) for upgrades, represents only the costs for the upgraded portion of an existing out station.													
*** OMA funded CLS is expected to start in FY01 and in the event the National Maintenance Contract is awarded to other than the prime vendor, the \$86K in FY01 will be required for non-warranty repairs.													

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Appropriation / Budget Activity/Serial No:	P-5a, Budget Procurement	Weapon System			D 1 Line Item	Nomenclatur	0.		February 1	999
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		vveapon dystem	туре.				RECON SYSTEM	(LWVRS)	(K30800)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
AN/PVH-1&2 LVRS										
FY 98	Phototelesis, San Antonio, TX		CECOM	May-98	Dec-98	101	28	Yes		
FY 99	Phototelesis, San Antonio, TX		CECOM	Mar-99		156				
FY 00	To Be Selected	C/FPM-3(1)		Mar-00	Jan-01	141	17			
FY 01	To Be Selected	C/FPM-3(2)	CECOM	Jan-01	Nov-01	46	19			
REMARKS:										

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Proc Qty 1200 1650 1876 1522 1665 1818 1808 1903 1896 2011 CONTINUING CO												
P-1												
Exhibit P-40, Budget Item Justification Sheet												
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipment	t				NIGHT VISION	N, THERMAL WPN S	SIGHT (K22900)		
Program Elements for Code B It	tems:			Code:	Other Related Progr	am Elements:						
			1			1	1	1	1	1	1	1
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	1200	1650	1876	1522	1665	1818	1808	1903	1896	2011	CONTINUING	CONTINUING
Gross Cost	46.1	45.4	40.8	36.0	35.9	35.6	35.3	37.2	36.9	49.2	CONTINUING	CONTINUING
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	46.1	45.4	40.8	36.0	35.9	35.6	35.3	37.2	36.9	49.2	CONTINUING	CONTINUING
Initial Spares												
Total Proc Cost	46.1	45.4	40.8	36.0	35.9	35.6	35.3	37.2	36.9	49.2	CONTINUING	CONTINUING
Flyaway U/C	0.037	0.025	0.023	0.019	0.018	0.016	0.016	0.016	0.016	0.016		
Wpn Sys Proc U/C	0.038	0.026	0.024	0.024	0.022	0.020	0.020	0.020	0.020	0.020		

DESCRIPTION: K22900, AN/PAS-13 is a multi-purpose Thermal Weapon Sight designed to be mounted on all Infantry Individual and Crew Served Weapons. It is a GEN II Thermal Device which significantly improves dismounted Infantry operation capability by increasing range and enabling both day and night vision through smoke, fog, battlefield obscurants and in extremely low light levels such as under triple canopy jungle.

JUSTIFICATION: The "Own the Night" initiative, one of the Chief of Staff of the Army's top five priorities, includes the AN/PAS-13 TWS. The TWS is also a key component of Land Warrior, a designated digitized division/corps asset. The FY 2000 and FY 2001 funds will procure TWS systems for fielding to the Special Operations Forces (1, 3, 5th and 18th Corps Long Range Surveillance Companies, 1st, 2nd, 3rd, 4th and 25th Infantry, Scout Battalions).

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F	dget Activity				em Nomenclature: VISION, THERMA	L WPN SIGHT		Weapon System	Type:	Date: Feb	ruary 1999
•		Communications	and Electro	onics Equipment			(K22900)						
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AN/PAS-13 Thermal Weapon Sight (TWS)	Α	33633	1876	18	29004	1522	19	30480	1693	18	30078	1879	16
Borelights		1000	2500										
Government Engineering Support Project Management Admin Fielding Contractor Engineering Support ECO Data/Tech Pubs Interim Contractor Support Testing		1226 993 1299 230 129 291 1729 244			1317 1093 1821 300 144 254 1784			1343 1127 1789 441 147 263			1367 1156 1775 489 145 271		
TOTAL		40774			36011			35901			35603		
The increase in unit cost for FY99 results from a larger quantity of the more expensive heavy version of the TWS in that year.													

Fyhibit	P-5a, Budget Procurement I	listory a	nd Planning					Date:	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics	-3a, Baaget i Tocarement i	Weapon Syste			P-1 Line Item	n Nomenclatur				333
Equipment Equipment						NIGHT VISI	ON, THERMAL WPI			
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First		Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
AN/PAS-13 Thermal Weapon Sight (TWS)									'	
FY 98	Raytheon, Dallas, TX	C/FPM-3(1)		Jun-98		1876			l '	
FY 99	Raytheon, Dallas, TX	C/FPM-3(2)			Aug-00		19		l '	
FY 00	Raytheon, Dallas, TX	C/FPM-3(3)		Jan-00		1693			l '	
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OTHER P	PROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				COMBAT IDENTIFI	CATION/AIMING LIC	GHT (CIDD (BA0515	5)	
Program Elements for Code B Is	tems:			Code:	Other Related Prog	ram Elements:						
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	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0			9.5	11.1	16.6	13.6	16.2	19.8	Cont	86.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	9.5	11.1	16.6	13.6	16.2	19.8		86.8
Initial Spares					0.3	1.7	1.5	1.6	1.6	1.7		8.4
Total Proc Cost	0.0	0.0	0.0	0.0	9.8	12.8	18.1	15.2	17.8	21.5		95.2
Flyaway U/C					0.035	0.002	0.003	0.002	0.002	0.003		
Wpn Sys Proc U/C					0.035	0.002	0.003	0.002	0.002	0.003		

NARRATIVE: The Combat Identification System for the Dismounted Soldier (CIDDS) is a lightweight, laser-based, question and answer type system, used to positively identify friendly soldiers. The system includes a compact, eyesafe, diode laser interrogator; a laser detector assembly; an electronic processor unit; and an omnidirectional RF responder. The laser transmitter also includes a near infrared aiming laser pointer for aiming the soldier's weapon at night when using Night Vision Goggles and provides an embedded training capability that is interoperable with MILES/MILES 2000. The system will provide range of at least 1.1 kilometers under clear weather conditions and will exceed the soldier's target acquisition capability under degraded atmospheric conditions. It will have sufficient angular resolution to resolve individual targets, but does not require precise pointing accuracy for robust response. The system will also be directly interoperable with the integrated soldier-to-soldier combat ID functions to be embedded in the Land Warrior equipment suite.

<u>JUSTIFICATION</u>: The system will fulfill requirements stated in the Operational Requirements Document (ORD) for use by Army, Marine and Special Operations applications. As identified in the Joint Combat Identification Mission Need Statement (MNS), current combat identification capabilities suffer from numerous shortcomings when measured against the requirements and threats. FY00/FY01 funding is required to produce and initiate fielding to the 10th Mountain Division.

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREM s and Electro			COMBAT	em Nomenclature: IDENTIFICATION (CIDD (BA05)	V/AIMING LIGHT		Weapon System	Туре:		ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Initial Production Facility		\$000	Each	\$000	\$000	Each	\$000	\$000 2131	Each	\$000	\$000 876	Each	\$000
2. CIDDS								4542	1060	4	8654	2655	
3. Project Management Admin								677			697		
4. System Test and Evaluation								1981					
5. Support													
Technical Data								43			48		
ECOs								112			145		
6. Fielding											678		
Total System Cost								9486			11098		

	Exhibit P-5a, Budget Procuremen	 nt History	and Planning					Date:	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and	-	Weapon Syst				n Nomenclatur DMBAT IDENT	re: TFICATION/AIMING	LIGHT (CI	DD (BA05	15)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date		QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type		 	Delivery	Each	\$000	Now?	Avail	
CIDDS CIDDS	Motorola, Scottsdale, AZ Motorola, Scottsdale, AZ	SS/FPI SS/O	CECOM, Ft. Monmouth, NJ CECOM, Ft. Monmouth, NJ	Apr-00 Oct-00	Nov-00 May-01	1060 2655			Aug 99	Dec-99
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REMARKS: A sole source FPI contract w	will be awarded for ramp up to full rate production	n.	<u>-</u> -							

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		Exhibit P-4	0, Budget	ltem Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:	=				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipment	t				ARTILLER	Y ACCURACY EQU	IP (AD3200)		
Program Elements for Code B II	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	332.0	4.5	4.4	11.0	4.3	14.5	4.4	41.5	1.8	0.0	0.0	418.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	332.0	4.5	4.4	11.0	4.3	14.5	4.4	41.5	1.8	0.0	0.0	418.4
Initial Spares												
Total Proc Cost	332.0	4.5	4.4	11.0	4.3	14.5	4.4	41.5	1.8	0.0	0.0	418.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Artillery Accuracy Equipment involves the procurement of meteorological, survey and velocity measuring equipment designed to improve accuracy of Army artillery weapons and increase the probability of first round target hits. This category of equipment included procurement of the Meteorological Measuring System (K27800) and Artillery Muzzle Velocity System (AD3250).

JUSTIFICATION: The FY00-01 funds support fielded units and readiness requirements with conventional and Paladin versions of the Muzzle Velocity System (MVS) and the Meteorological Measuring System (MMS), providing field artillery weather data.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bud OTHER P Communications	ROCUREM	ENT/2/			m Nomenclature: RY ACCURACY E			Weapon System	Туре:	Date: Febr	ruary 1999
OPA	ID	Communications	FY 98	onics Equipment		FY 99	1		FY 00			FY 01	
	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Cost Liements	OD												
METEOROLOGICAL MEASURING SYS ARTY MUZZLE VELOCITY SYSTEM		\$000 4381	296	\$000	\$000 6582 4392	Each 9 150	\$000 731 29	\$000	Each	\$000	\$000 11008	Each 14	\$000 786 29
TOTAL		4381			10974			4283			14508		

		Exhibit P-4	I0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	<u> </u>				
OTHER P	PROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				METEOROLO	GICAL MEASURING	S SYS (K27800)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	127			9		14						150
Gross Cost	124.4	0.0	0.0	6.6	0.0	11.0	0.5	0.0	0.0	0.0	0.0	142.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	124.4	0.0	0.0	6.6	0.0	11.0	0.5	0.0	0.0	0.0	0.0	142.5
Initial Spares												
Total Proc Cost	124.4	0.0	0.0	6.6	0.0	11.0	0.5	0.0	0.0	0.0	0.0	142.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Meteorological Measuring System (MMS) provides field artillery weather data to the active Army. It is an upper air meteorological data collection, processing and dissemination system that provides necessary data to field artillery, target acquisition, and air weather service to improve their mission capability. It is mobile, provides high altitude Met Data to USAF Weather Service, radiological fallout data to the chemical sections, meet roll on/roll off HMMWV requirements data to 30KM.

JUSTIFICATION: The FY01 procurement supports additional National Guard MMS requirements. The MMS provides meteorological data to field artillery units to improve their firing accuracy. Current systems do not have the digital format capabilities that will be required for all artillery systems. It is critical to replace current systems with the MMS to improve the combat capability of the total Army in support of the defense effort of the United States.

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREM	IENT / 2 /			m Nomenclature: ROLOGICAL ME			Weapon System	Туре:	Date: Feb	ruary 1999
-		Communications		onics Equipment			(K27800)				•		
OPA	ID		FY 98			FY 99			FY 00		· · · ·	FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware	А				5706	9	634				9688	14	69:
2. Testing					88						150		
3. Engineering Support- Contractor Support- In House Support					134 318						309 517		
4. Fielding					100						189		
5. Program Management Admin					236						155		
TOTAL					6582						11008		

Exhibit !	P-5a, Budget Procurement I							Date: F	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon Syste	em Type:		P-1 Line Item	n Nomenclature METEOROL	re: LOGICAL MEASURII	ING SYS (K27800)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First		Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years 1. Hardware	<u> </u>	and Type	<u> </u>		Delivery	Each	\$000	Now?	Avail	
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FY99	ETG, Baltimore, MD	SS/FFP	CECOM	Feb-99	Nov-99	9	634	Yes	No	
FY01	ETG, Baltimore, MD	SS/FFP	СЕСОМ	Dec-00	Jul-01	14	692	Yes	No	
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REMARKS:										

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		Exhibit P-4	0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:	-				
OTHER P	ROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t				ARTY MUZZ	LE VELOCITY SYST	EM (AD3250)		
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
	ı						T	i	ı	ı	1	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	21.1	4.5	4.4	4.4	4.3	3.5	3.4	3.4	1.3	0.0	0.0	50.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	21.1	4.5	4.4	4.4	4.3	3.5	3.5	3.5	1.3	0.0	0.0	50.5
Initial Spares												
Total Proc Cost	21.1	4.5	4.4	4.4	4.3	3.5	3.5	3.5	1.3	0.0	0.0	50.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Muzzle Velocity System (MVS) Conventional is a Doppler Radar System which measures the muzzle velocity of artillery projectiles. It consists of weapon-mounted antenna connected to a display unit. The display will provide the muzzle velocity of the last round fired. The MVS will also compute weapon calibration data and store that data. A separate Paladin version of MVS is being fielded for use with the M109A6 Paladin Howitzer. It will not require a display and will be integrated into the M109A6 Paladin Automatic Fire Control System. The MVS will enhance artillery accuracy and first round hit probability. This will decrease projectile and propellant usage and reduce the requirements to adjust fire on target. The MVS will also provide an automated method for calculating and storing weapon calibration data. The MVS is being procured as a non-developmental item (NDI) which includes acquisition of provisioning data, manuals, and training, together with the production hardware for fielding and additional related hardware, Muzzle Velocity Communications Adapters (MCA).

JUSTIFICATION: The FY00-01 procurement supports fielded units and readiness requirements for both conventional and Paladin versions of the Muzzle Velocity System.

Exhibit P-5, Weapon		Appropriation/ Bu	dget Activity				m Nomenclature: MUZZLE VELOCI			Weapon System	Туре:	Date:	uary 1999
OPA Cost Analysis		Communications				ARTY	(AD3250)	IY SYSIEM				Feb	uary 1999
OPA	ID		FY 98			FY 99	(7180200)		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware RSI/Related	Α	2800 1344	181 115	15 12	3564	150	24	3562	150	24	3052	120	25
2. Initial Contr Support/Software Support					260			120			120		
3. Engineering Support (In-House)		205			138			295			125		
4. Quality Assurance (ARDEC)		32			59			150			75		
5. Engineering Change Proposals					350			142			114		
7. Fielding					21			14			14		
TOTAL		4004			4000			4000			0500		
TOTAL		4381			4392			4283			3500		

	Exhibit P-5a, Budget Procurement	nt History a	and Planning					Date:	February ⁻	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communication	and the straigh	Weapon Syst	ет Туре:		P-1 Line Item	Nomenclatur	re:			
Equipment	ons and Electronics					ARTY MUZ	ZZLE VELOCITY SY	/STEM (A		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issu Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Hardware										
Conventional	RSI Electronics									
	Poughkeepsie, NY		ACALA							
FY98*		SS/FFPM-5(5)		May-98	Oct-98	181	15	Yes	No	
FY99		SS/FFPM-5(1)		Apr-99	Oct-99	150			No	
FY00		SS/FFPM-5(2)		Mar-00		150			No	
FY01		SS/FFPM-5(3)		Dec-00	May-01	120	25	Yes	No	
Paladin	RSI Electronics									
i aladiri	Poughkeepsie, NY		ACALA							
FY98*	, ong	SS/FFPM-5(5)		Jan-98	May-99	115	12	Yes	No	

REMARKS:

The FY99 procurement quantities are for the balance of M94 MVS and the initial procurement of M94 MVS Communications Adapters (MCA) which are planned for fielding to each non-Paladin 155mm tube and each 105mm tube.

^{*}FY98 contract award includes both Conventional and Paladin.

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COST ELEMENTS			V				Т	V	С	Ν	В	R	R	Υ	Ν	L	G	Р	Т	V	С	Ν		R		Υ	N	L	G	Р	R
Hardware	1	97 & Pr	Α	1012	811	201	10	28	28	28	28	24	12	13	13	13	4														
	1	97 & Pr	MC	149	149																										
Conventional	1	FY98	Α	181	0	181								Α					10	16	16	16	16	16	16	16	16	12	16	15	
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Conventional	1	FY98	Α	181	181																										
	1	FY99	Α	150	150																										
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		Exhibit P-4	10, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	<u>4</u> -				
OTHER P	ROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				PORTABLE INDUCT	IVE ARTILLERY FU	ZE SETTER (AD326	60)	
Program Elements for Code B II	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					3492							3492
Gross Cost	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	4.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	4.1
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	4.1	0.0	0.0	0.0	0.0	0.0	0.0	4.1
Flyaway U/C												
Wpn Sys Proc U/C					1185							1185

DESCRIPTION: This sprogram upports procurement of the Portable Inductive Artillery Fuze Setter (PIAFS). The PIAFS is a hand held wand that can be used to set all NATO inductive artillery fuzes including the M762, M767 and XM 782 Multi Option Fuze for Artillery (MOFA).

JUSTIFICATION: PIAFS is needed to support fielding of the XM782 Multi Option Fuze for Artillery (MOFA). PIAFS will be required in all US howitzer systems except Crusader, which has built-in inductive artillery fuze setting capability. The XM782 MOFA will go into production in fiscal year 2000 therefore procurement of the PIAFS is critical to allow the current artillery fleet to make use of this new artillery fuze.

ACQUISITION MANAGER: PM Crusader

Exhibit P-5, Weapon		Appropriation/ Bu	dget Activity				em Nomenclature: LE INDUCTIVE AF			Weapon System	Type:	Date: Feb	ruary 1999
OPA Cost Analysis				onics Equipment			ETTER (PIAFS) (reb	uary 1999
OPA	ID		FY 98			FY 99	ETTER (FIALS) (AD3200)	FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCos
Cost Elements	CD	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$	\$000	Each	\$
PIAFS Complete Setter		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		*	7		T	2737	3492	Ť	7		
•									3492	764			
SUBTOTAL								2737					
Production Support Costs Engineering in support of production Quality Assurance Lot Acceptance Testing								300 100 300					
SUBTOTAL								700					
Non Recurring Costs First Article Testing Fielding								400 300					
SUBTOTAL								700					
TOTAL								4137	3492	1185			

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	t P-5a, Budget Procurement	Weapon Syst			D. d. Line Hear	Norman elektri		ı	February 1	999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon Syst	.ет туре.			Nomenclatur BLE INDUCTIV	re: /E ARTILLERY FUZI	E SETTEF	₹ (PIAFS) ((AD3260)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$	Now?	Avail	
PIAFS Complete Setter		T		T						
FY 00	TBS	C/FFP	Picatinny, NJ	Jun-00	Jan-01	3492	784	NO	Jun-00	Jun-00
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REMARKS:										

	FY 00 / 01 BUDGET PRO	ODUC	CTION S	CHED	ULE			P-1		Nome		iture: NDUCT	IVE A	RTILL	ERY I	FUZE	SETT	ER (P	IAFS)	(AD32	(60)			Date	e:			Febr	uarv 1	999		
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	COST ELEMENTS	R		R V		1 OCT	1 OCT	C T	0 V	C	A N	E B	A R	P R	A Y	U N	U	G	E P	C T	V	C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	E R
PIAFS	Complete Setter									_																			Ħ			
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		Exhibit P-4	I0, Budget	Item Justifi	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:					
OTHER F	PROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	nt				MOD OF IN-	SVC EQUIP (TAC SI	JRV) (BZ7325)		
Program Elements for Code B I	Items:			Code:	Other Related Prog	ram Elements:						
			1				1	1		1	,	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	343.2	16.1	1.1	16.3	6.5	8.9	21.8	32.1	26.4	11.8	0.0	484.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	343.2	16.1	1.1	16.3	6.5	8.9	21.8	32.1	26.4	11.8	0.0	484.1
Initial Spares												
Total Proc Cost	343.2	16.1	1.1	16.3	6.5	8.9	21.8	32.1	26.4	11.8	0.0	484.1
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: MOD IN-SERVICE EQUIPMENT (TAC SURV) funds the modifications to the FIREFINDER radars, the AN/TPQ-36 Mortar Locating Radar and the AN/TPQ-37 Artillery Locating Radar. The FIREFINDER equipment is designed to meet the Army's critical need to quickly and accurately locate the large number and variety of hostile indirect fire weapons. The FIREFINDER radars use a combination of radar techniques and computer controlled signal processing to detect and locate enemy field artillery with sufficient accuracy to permit rapid engagement with counterfire. The FIREFINDER radars are capable of locating multiple weapons simultaneously and transmitting the target data to appropriate counterfire elements in near real time. The AN/TPQ-36 is a phased-array X-Band radar which automatically locates mortar and short range rocket launchers. The system is configured on three (3) HMMWVs making it highly mobile and transportable. The AN/TPQ-37 is a larger system requiring a 5-ton truck to pull the Antenna Transceiver Group (ATG). The AN/TPQ-37 is a phased-array S-Band radar with a longer target acquisition range than the AN/TPQ-36 allowing it to locate long range artillery and rockets.

JUSTIFICATION: FY00-01 funds the Fire Support Digitization program which procures hardware/software required to upgrade AN/TPQ-36(V)5/7s and AN/TPQ-37s to allow AFATDS connectivity and provide Joint Technical Architecture-Army (JTA-A) compliance. FY00-01 also funds Pre-Mod Depot Maintenance to support the AN/TPQ-36(V)8 and AN/TPQ-37(V)8 modifications. FY01 funding also initiates the procurement of the additional AN/TPQ-37(V)8 modification kits required to complete the Army AAO.

	Exhibit	P-40M Budget It	em Justific	ation Sheet			Date		February 1999		
Appropriation / Budget Activity	//Serial No.				P-1 Item Nomenclatu	re					
OTHER	PROCUREMENT / 2 / Communications	and Electronics Equipment					MOD OF IN-S	VC EQUIP (TAC SU	RV) (BZ7325)		
Program Elements for Code E	3 Items		Code	Other Related Progra	am Elements						
Description		Fiscal Years									
OSIP NO.	Classification	FY 1998 and Prior	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
AN/TPQ-36(V)8 E	lectronic Upgrade	<u> </u>	<u> </u>						-		
1-90-07-0016	Unclassified	80.0	12.5	1.6	1.0	12.6	25.7	25.4	11.8	0.0	170.0
AN/TPQ-37(V)8 E	Enhanced FIREFINDER I	Block I									
1-93-07-0001	Unclassified	26.9	1.2	1.7	4.3	8.5	1.0	0.0	0.0	0.0	43.0
Fire Support Digit	ization										
99-001	Unclassified	0.0	2.1	3.2	3.6	0.7	0.0	0.0	0.0	0.0	9.6
Firefinder Position	n Analysis System (FFPA	AS) (No P3a Set)									
99-002	Unclassified	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
AN/TPQ-37 Long	Range Software (No P3	a Set)									
03-001	Unclassified	0.0	0.0	0.0	0.0	0.0	1.9	0.2	0.0	0.0	2.1
AN/TPQ-36/37 M	APS Hybrid (No P3a Set)									
03-002	Unclassified	0.0	0.0	0.0	0.0	0.0	3.5	8.0	0.0	0.0	4.3
Totals		106.9	16.3	6.5	8.9	21.8	32.1	26.4	11.8	0.0	230.

INDIVIDUAL MODIFICATION Date February 1999

MODIFICATION TITLE: AN/TPQ-36(V)8 Electronic Upgrade 1-90-07-0016

MODELS OF SYSTEMS AFFECTED: AN/TPQ-36(V)5 and AN/TPQ-36(V)7 HMMWV Radar

DESCRIPTION / JUSTIFICATION:

The AN/TPQ-36 is the primary target acquisition and counterfire system for the field artillery in support of Divisions, separate Brigades, and rapid deployment task forces. This program incorporates the first electronics upgrade to the 1970s technology of this system and corrects Operation Desert Storm identified deficiencies in range, false target rate, target throughput, target classification and displacement time. It replaces electronic components, that are rapidly approaching obsolescence, with standard Common Hardware/Software (CHS) and/or Commercial Off-The-Shelf (COTS) equipment. This Materiel Change provides a validated cost benefit of \$48.933M (FY92 constant dollars) attributed to Operational and Support (O&S) savings over twenty years.

FY99 funding completes the installation of the modification kits procured in FY96/97 and procures seven (7) modification kits. FY02-05 funding will procure and install an additional forty-eight (48) modification kits to complete the Army AAO..

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Milestone III was approved in 3QFY96. A Full Rate Production contract for eleven (11) modification kits was awarded in 4QFY96. An option for an additional eleven (11) kits was awarded in 2QFY97. Initial Operational Capability (IOC) was accomplished 4QFY98. Contract award to procure seven (7) modification kits is scheduled for 3QFY99. A contract to procure additional modification kits will be awarded 2QFY02.

Installation Sched	lule:																					
	Pr Yr		FY 1	1999			FY 2	2000			FY 200	01			FY	2002			F	Y 200	03	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	2	3	4	1	2	3	4
Inputs *	11	3		8	8				7												4	4
Outputs *	11	3		8	8				7												4	4
*Eight (8) LRIP U	nits installed a	t contrac	ctor's fac	cility pric	or to deli	very																
		FY 2	004			FY 2	2005			FY 200	06			FY 2	2007			Т	O		To	otals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	3	4	Complet	е			
Inputs	4	4	4	4	6	6	6	6														85
Outputs	4	4	4	4	6	6	6	6														85
METHOD OF IM	PLEMENTAT	ON:	FRP-De	epot		ADMIN	ISTRAT	IVE LEA	ADTIME:		M	onths	F	PRODU	JCTIO	N LEA	DTIM	IE:	Mont	:hs		
Contract Dates:			FY 199	9	3QFY99)		FY 2000) E	nter Dat	Э		F	Y 200	1	Ente	r Date)				
Delivery Date:			FY 199	9	3QFY00)		FY 2000) E	nter Dat	Э		F	Y 200	1	Ente	r Date)				

INDIVIDUAL MODIFICATION Date February 1999 AN/TPQ-36(V)8 Electronic Upgrade 1-90-07-0016 MODIFICATION TITLE (Cont): FINANCIAL PLAN: (\$ in Millions) FY 1998 FY 2002 FY 1999 FY 2000 FY 2001 FY 2003 FY 2004 FY 2005 and Prior Qty Qty Qty \$ Qty \$ Qty \$ \$ Qty \$ Qty Qty Qty \$ Qty \$ RDT&E PROCUREMENT 30 7 9 16 16 7 85 Kit Quantity Modification Kits (V5 to V7) Installation Kits, Nonrecurring Equipment 37.3 8.5 12.1 22.9 23.2 9.9 113.9 Equipment, Nonrecurring 24.5 0.7 25.2 **Engineering Change Orders** 0.3 0.3 Data 3.3 0.1 0.1 0.1 3.6 5.1 Training Equipment 5.1 0.2 5.7 **Engineering Support** 3.7 0.5 0.5 0.5 0.3 0.6 0.3 0.3 0.1 1.5 Testing 0.2 0.2 6.8 PM Admin 4.8 8.0 0.2 0.4 0.4 Fielding 0.7 0.6 1.3 Interim Contractor Support Pre-Mod Depot Maint 3.6 0.3 1.3 1.0 1.0 (*See Page 3) Installation of Hardware * FY 1998 & Prior Eqpt -- Kits 11 0.1 19 0.5 30 0.6 FY 1999 Eqpt -- Kits 7 0.3 7 0.3 FY 2000 Eqpt -- Kits FY 2001 Eqpt -- Kits FY 2002 Eqpt -- kits 8 0.5 8 0.5 FY 2003 Eqpt -- kits 16 0.9 16 0.9 FY 2004 Eqpt -- kits 24 1.3 24 1.3 FY 2005 Eqpt -- kits TC Equip-Kits 11 0.1 19 0.5 0.3 8 0.5 16 0.9 24 1.3 85 Total Installment 3.6 80.0 12.5 1.6 1.0 12.6 25.7 25.4 11.8 170.6 **Total Procurement Cost**

INDIVIDUAL MODIFICATION Date February 1999

MODIFICATION TITLE: AN/TPQ-37(V)8 Enhanced FIREFINDER Block I 1-93-07-0001

MODELS OF SYSTEMS AFFECTED: AN/TPQ-37(V)5 and (V)6

DESCRIPTION / JUSTIFICATION:

This Materiel Change (MC) is vital to keeping the AN/TPQ-37 radars sustainable in the field. The MC is limited to mechanical, electrical, and software changes necessary to maintain the Reliability, Availability, Maintainability (RAM), transportability, mobility and interoperability of the system. Modifications to the system upgrade the cooling system, provide for transportability by a C130/141, upgrade the trailer, incorporate a self-survey capability, reduce false locations, correct and incorporate existing long range software, improve the transmitter RAM, integrate the AN/TPQ-36(V)7 Operations Control Group (OCG) on the M-1097.

Funding in FY99 will modify the AN/TPQ-37(V)8 to be compatible with the Family of Medium Tracked Vehicles (FMTV). Funding in FY01-03 will procure and install an additional twenty-two (22) modification kits to complete the Army AAO.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

Milestone III was approved in 3QFY94. Production contract for twenty-six (26) modification kits was awarded in 3QFY94. First Article testing was completed in 1QFY96. Installation/fielding of modification kits was completed 1QFY98. A contract to procure additional modification kits will be awarded 2QFY01.

Installation Schedule:																						
	Pr Yr		FY	1999			FY 2	2000			FY	2001			F١	/ 2002				FY 2	003	
	Totals	1	2	3	4	1	2	3	4	1	2	2 3	4	1		2	3	4	1	2	3	4
Inputs	26																	4	5	5	4	4
Outputs	26																	4	5	5	4	4
		FY :	2004			FY 2	2005			FY 2	2006			FY	2007				To		Т	otals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	2	3	4	Co	mplete			
Inputs																						48
Outputs																						48
METHOD OF IMPLEM	IENTATI	ON:	Depot			ADMIN	ISTRAT	TIVE LE	ADTIMI	Ē:	3	Months	;	PROD	UCTIC	N LEA	ADTI	ME:	15	Months		
Contract Dates:			FY 199	9	Enter D	ate		FY 200	0	Enter D	ate			FY 200	01	2QF	Y01					
Delivery Date:			FY 199	9	Enter D	ate		FY 200	0	Enter D	ate			FY 200	01	Ente	er Dat	te				

INDIVIDUAL MODIFICATION Date February 1999 AN/TPQ-37(V)8 Enhanced FIREFINDER Block I 1-93-07-0001 MODIFICATION TITLE (Cont): FINANCIAL PLAN: (\$ in Millions) FY 1998 FY 2001 FY 2002 FY 2003 FY 2005 and Prior FY 1999 FY 2000 FY 2004 TOTAL Qty Qty Qty Qty Qty Qty Qty \$ \$ \$ Qty \$ Qty Qty \$ \$ RDT&E **PROCUREMENT** 26 8 14 48 Kit Quantity Installation Kits 0.1 0.1 Installation Kits, Nonrecurring Equipment 10.5 4.1 7.3 21.9 Equipment, Nonrecurring 11.5 0.4 11.9 **Engineering Change Orders** Data 2.2 0.1 2.3 **Training Equipment Engineering Support** 0.1 8.0 0.1 0.1 1.1 Test 0.1 0.1 0.2 0.4 PM Admin 1.1 0.1 1.2 Fielding 0.1 0.1 0.2 Interim Contractor Support Pre-Mod Depot Maint 0.7 2.7 0.3 1.7 Installation of Hardware FY 1998 & Prior Eqpt -- Kits 26 0.8 26 0.8 FY 1999 Eqpt -- Kits FY 2000 Eqpt -- Kits FY 2001 Eqpt -- Kits 0.2 0.2 8 0.4 FY 2002 Eqpt -- kits 14 0.6 14 0.6 FY 2003 Eqpt -- kits FY 2004 Eqpt -- kits FY 2005 Eqpt -- kits TC Equip-Kits 26 0.8 4 0.2 18 0.8 48 Total Installment 1.8 26.9 1.2 1.7 4.3 8.5 1.0 43.6

Total Procurement Cost

INDIVIDUAL MODIFICATION

Date

February 1999

MODIFICATION TITLE: Fire Support Digitization 99-001

MODELS OF SYSTEMS AFFECTED: AN/TPQ-36(V)5/7 and AN/TPQ-37(V)8

DESCRIPTION / JUSTIFICATION:

This upgrade will modify the FIREFINDER Operations Control Group (OCG) and will incorporate hardware and software to allow AFATDS connectivity and provide Joint Technical Architecture-Army (JTA-A) compliance. The new hardware will include a Lightweight Computer Unit (LCU) and TACFIRE Control Interface Module (TCIM).

FY99-02 funding is required for the procurement and installation of the hardware/software required to upgrade the AN/TPQ-36(V)5/7s and the Active Army AN/TPQ-37s.

DEVELOPMENT STATUS / MAJOR DEVELOPMENT MILESTONES:

A contract for Non-Recurring Engineering (NRE) efforts will be awarded 2QFY99. A production contract will be awarded 2QFY00 with an option to be exercised in 1QFY01. Initial Operational Capability (IOC) scheduled for 1QFY01

Installation Schedule:																					
	Pr Yr		FY	1999			FY 2	2000			FY 2	2001			FY 2	2002			FY:	2003	
	Totals	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs										12	12	12	14	14	14	14	11				
Outputs										12	12	12	14	14	14	14	11				
		FY 2	2004			FY 2	2005			FY 20	006			FY 2	2007			То			Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	С	omplete			
Inputs																					103
Outputs																					103
METHOD OF IMPLEM	IENTATI	ON:	Depot			ADMIN	ISTRAT	TIVE LE	ADTIME	≣:		Months		PRODU	JCTION	I LEAD	TIME:	6	Months		
Contract Dates:			FY 199	9	2QFY9	9		FY 200	0	2QFY00				FY 200	1	1QFY0	1				
Delivery Date:			FY 199	9	Enter D	ate		FY 200	0	4QFY00				FY 200	1	3QFY0	1				

					IN	DIVIDUA	L MODIF	FICATIO	N							Date		Febru	ary 1999	
MODIFICATION TITLE (Cont):		Fire	Supp	ort Dig	jitizatio	n 99-00	01													
FINANCIAL PLAN: (\$ in Millions)																				
	FY 1998																			
	and Prio		FY 1			2000	FY 2			2002		2003		2004		2005		C	TOT	
	Qty \$	5	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity					50		53												103	
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment						2.5		2.6												5.1
Equipment, Nonrecurring				1.4																1.4
Engineering Change Orders																				
Data				0.2		0.1														0.3
Training Equipment																				
Support Equipment																				
Engineering Support				0.3		0.4		0.4												1.1
PM Admin				0.2		0.2		0.1		0.1										0.6
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt Kits																				
FY 1999 Eqpt Kits																				
FY 2000 Eqpt Kits							50	0.5											50	0.5
FY 2001 Eqpt Kits							55	0.0	53	0.6									53	0.6
FY 2001 Eqpt kits									55	0.0									33	0.0
FY 2002 Eqpt kits FY 2003 Eqpt kits																				
FY 2003 Eqpt kits																				
FY 2004 Eqpt kits FY 2005 Eqpt kits																				
TC Equip-Kits Total Installment	-						50	0.5	F0	0.0			+				1		103	4 4
Total Installment Total Procurement Cost				2.1		2.0	50	0.5	53	0.6			1				1		103	1.1 9.6
i otal Procurement Cost				∠.1		3.2		3.6		0.7									1	9.6

								Date:				
		Exhibit P-4	0, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	=				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				DIGITIZ	ATION APPLIQUE ((W61900)		
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
	W61	900		В								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	66.4	62.1	81.8	110.4	157.3	168.4	1079.8	1726.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	66.4	62.1	81.8	110.4	157.3	168.4	1079.8	1726.2
Initial Spares												1
Total Proc Cost	0.0	0.0	0.0	0.0	66.4	62.1	81.8	110.4	157.3	168.4	1079.8	1726.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The initial Force XXI Battle Command Brigade and Below (FBCB2) effort was developed as part of the Army's digitization initiative. The mission of FBCB2 is to field a Digital Battle Command information system that provides mounted tactical combat, combat support, and combat service support commanders, leaders and soldiers integrated, on the move, real-time/near real time, battle command and information and situational awareness from brigade down to the soldier/platform level across all battlefield function areas (BFAs). FBCB2 is located in the mounted and dismounted maneuver (divisional, separate, heavy and light) cavalry/reconnaissance and armored cavalry, mechanized infantry and aviation units. FBCB2 is integrated with the Army Tactical Command and Control System (ATCCS) located within the brigade and battalion. FBCB2 allows the Army's primary weapons and battle command systems to see, acquire and engage threats while sharing the same information with equal clarity, using advanced technologies and digital communications. FBCB2 develops a seamless battlefield architecture and digitized applique system (computer with graphics display, global positioning system, communications link and command and control software) required to equip the First Digitized Division by FY00, the Reserve Component in FY02/03, and First Digitized Corp by FY04.

JUSTIFICATION: The FY00 program provides for the initial procurement of FBCB2 and total fielding of the First Digitized Division (4ID-Ft Hood) to align the Training and Doctrine Command's list of priority one systems.

FY01 program continues the production buy and fielding to the Second Digitized Division (1CD-Ft Hood).

Exhibit P-5, Weapon		Appropriation/ Bu	-				m Nomenclature:			Weapon System	Type:	Date:	
OPA Cost Analysis			PROCUREM			DIGITI	ZATION APPLIQ	UE (W61900)				Febr	uary 1999
<u> </u>	_	Communications		onics Equipment	1			T:					
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
ce XXI Battle Command Brigade and Below ardware - Applique & Installation Kits my Preposition Stock in Recurring Engineering stem Test and Evaluation gineering Support overnment In-House ontractor System Engineering ining oject Management Administration	V							41000 5280 2164 980 1673 161 1961	1640	25	36450 98 1180 1702 2357	1458	
Iding tware Support								13204			12515 7838		
								66423			62140		

	Exhibit P-5a, Budget Procuremen	nt History a	and Planning					Date:	February	1999
Appropriation / Budget Activity/Serial No:	Exhibit Fou, Budget Frood emer	Weapon Syst			P-1 Line Item	Nomenclature	e:		· ob.ua.y	
OTHER PROCUREMENT / 2 / Communications an Equipment	d Electronics					DIGIT	IZATION APPLIQU	E (W6190	0)	
VBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Is Date
iscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
FY-00 Applique & Installation Kits	TRW. Carson, CA	SS/FP	СЕСОМ	Jan-00	May-00	1640	25	NO	N/A	ТВ
Applique & Installation Kits	TRW, Carson, CA TBS	SS/FP C/FP	CECOM CECOM	Oct-00 Oct-00	Feb-01 Mar-01	910 548			N/A N/A	TBI TBI
REMARKS: Contract method for FY-01	will be leader/follower.		ı							

								P-1	Item N	Nome	nclati	ure:												Date	e:							
FY 00 / 01 BU	JDGET PRODI	UCT	TION SC	HED	ULE							DIG	ITIZA	TION	APPLI	IQUE	(W619	900)										Febru	ary 19	199		
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FY 00 / 01 BUDGET PRODU	JCTION :	SCHED	ULE										APPLI	IQUE	(W619	900)										Febru	uary 19	999		
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M		PRODUCT	ION RATES	·	I		V IFR	U	IN	D	ĸ	ĸ			EAD T		Р	H	v MFR	U		TOTAL	_	_	Y MAR		L	G	٢	
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R NAME / LOCATION	MIN.		1-8-5	MAX.	D +			INITIA	AL				0			4			4			8		1						
1 TRW, Carson CA	100		200	400					RDER				0			1			4			5		1						
2 TBS	100		200	400				INITIA					0			1			5			6		1						
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		Exhibit P-4	0, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	=				
OTHER P	PROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t			LIGHT	WEIGHT LASER DE	SIGNATOR / RANG	SEFINDER (LLDR) (K31100)	
Program Elements for Code B Is	tems:			Code:	Other Related Progr	ram Elements:						
0	604710A DL70			В								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					14	33	40	43	58	77	Continuing	Continuing
Gross Cost	0.0	0.0	0.0	0.0	6.3	7.1	7.1	7.3	9.9	15.4	Continuing	Continuing
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	6.3	7.1	7.1	7.3	9.9	15.4	Continuing	Continuing
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	6.3	7.1	7.1	7.3	9.9	15.4	Continuing	Continuing
Flyaway U/C					0.310	0.183	0.151	0.144	0.146	0.170		
Wpn Sys Proc U/C					0.447	0.223	0.174	0.169	0.171	0.200		

DESCRIPTION: K31100, AN/PED-1, Lightweight Laser Designator Rangefinder (LLDR) is a modular system designed for day/night all weather target acquisition, precise location, and designation for engagement by a variety of munitions. The target location module contains an advanced Forward Looking Infrared (FLIR) thermal sensor, day camera, laser rangefinder, digital compass/vertical angle measurement device, Global Positioning System, and system controller with digital data and video outputs. The laser designation module contains the laser and associated optics required for precision engagement by laser-guided artillery and aircraft-launched munitions. Weighing just 35 pounds with tripod and battery, the man-portable LLDR gives the light forces an impressive new fire support capability with 24-hour target identification, digital data export of precise target location for engagement by indirect fires, or laser designation for destruction by laser-guided munitions. LLDR will also be mounted on the STRIKER vehicle to provide this same target location and engagement capability for mounted artillery fire support teams.

JUSTIFICATION: LLDR meets an urgent requirement for precision target location and engagement for the artillery fire support teams, and has received Warfighter Rapid Acquisition Program (WRAP) funding in FY 1997 and FY 1998 to achieve an initial operational capability and to be integrated into the STRIKER system. LLDR is a Priority 2 system for the First Digitized Division, and will give fire support teams the capability to send timely and accurate target location digital data with the push of a button. LLDR will also serve as the sensor and digital data source for Marine Corps fire support teams, with Marine Corps providing funding for a joint production program starting in FY 2001. The Army FY 2000 funds will procure this critical capability for fielding to the 82nd Airborne Division.

Exhibit P-5, Weapon		Appropriation/ Bu	-				em Nomenclature:			Weapon System	Type:	Date:	1000
OPA Cost Analysis			PROCUREN	MENT / 2 / onics Equipment			VEIGHT LASER D					Febi	uary 1999
		Communications		onics Equipment	1		GEFINDER (LLDI	R) (K31100)	E)/ 00			EV 04	
OPA	ID		FY 98	1		FY 99			FY 00	1		FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
K31100 AN/PED-1 LLDR	В							3060	14	219	5797	32	18
Government Engineering Support Project Management Admin Fielding								317 223			309 206 228		
Interim Contractor Support ECO								200 178			269 95		
Data/Technical Pubs Testing Facilitization								74 195 2015			39 202		
TOTAL								6262			7145		

Exhibit	P-5a, Budget Procurement l							Date:	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon Syst	em Type:			n Nomenclatur IGHT LASER	e: DESIGNATOR / RA	NGEFIND	ER (LLDR) (K31100)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First		Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
K31100 AN/PED-1 LLDR									·	
FY 00	Litton Laser, Apopka, FL		CECOM	Mar-00		14			·	1
FY 01	Litton Laser, Apopka, FL	SS/FP	CECOM	Jan-01	Oct-01	32	181		'	
REMARKS:	<u> </u>		ı							
The state of the s										

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FY 00 / FY 01 BUDGE	T PRODU	JCTION S	SCHE	DULE				LIGH	HTWE	IGHT I	LASEF	R DES	IGNA	TOR /	RAN	GEFIN	IDER ((LLDR	R) (K3	1100)							Febr	uary 1	999		
				PROC	ACCEP.	BAL					Fis	cal `											Fi		Yea						L
	M		S	QTY	PRIOR	DUE							_		_	r Yea											Year	01			A
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COST ELEMENTS			V		1 001	1 001	Т	V	C	N	В	R	R	Y	N	L	G	Р	Т	V	C	N	В	R		Y	N	L	G	Р	R
(31100 AN/PED-1 LLDR																															
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		Exhibit P-4	10, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	-				
OTHER F	PROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				COMPUTER BA	ALLISTICS: MORTA	R M-30 (K99200)		
Program Elements for Code B	Items:			Code:	Other Related Prog	ram Elements:						
	64802/D613			В								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	3588	232				73	135					4028
Gross Cost	31.8	6.8	0.0	0.0	2.9	1.7	2.9	0.0	0.0	0.0	0.0	46.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	31.8	6.8	0.0	0.0	2.9	1.7	2.9	0.0	0.0	0.0	0.0	46.0
Initial Spares												
Total Proc Cost	31.8	6.8	0.0	0.0	2.9	1.7	2.9	0.0	0.0	0.0	0.0	46.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The Mortar Ballistic Computer (MBC) calculates ballistic trajectories and gives the mortar user data to elevate gun, set charge, and direct fire for all mortar rounds. The MBC provides digital message capability and mortar firing computations. The MBC will interface with the Advanced Field Artillery Tactical Data System (AFATDS) to improve required response time and first round accuracy for mortar fire. The hardware is a ruggedized hand held computer which weighs less than six pounds (8.9 Lbs with case, carrying straps and batteries).

JUSTIFICATION:

The current M23 MBC is not supportable in the field due to components no longer being available/procureable. Also, the current requirements exceed the memory capacity of the M23. It does not support projected mortar ammunition items. The improved MBC will be capable of accepting software upgrades electronically, thus reducing the time and cost currently required to apply software upgrades via a hardware change to each fielded unit.

The FY2000 program funds a pre-planned improvement to bring the M30 into compliance with the Joint Technical Architecture (Army) JTA-A.

IDENT CODE:B, TC-LRP MAR 96; TDP Avail - FEB 97; TC STD MAY 99

								Date:				
		Exhibit P-4	0, Budget	Item Justifi	cation Sheet					February 1999		
Appropriation / Budget Activity/Se	erial No:					P-1 Item Nomencla	ture:					
OTHER PR	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				MORTAR FI	RE CONTROL SYST	TEM (K99300)		
Program Elements for Code B Ite	ems:			Code:	Other Related Prog	ram Elements:						
	64802/D613			В								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty					15	37	168	170	168	171		729
Gross Cost	0.0	0.0	0.0	0.0	3.8	12.5	35.7	35.5	38.6	39.0	0.0	165.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	3.8	12.5	35.7	35.5	38.6	39.0	0.0	165.2
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	3.8	12.5	35.7	35.5	38.6	39.0	0.0	165.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

The digital Mortar Fire Control System (MFCS) is a revolutionary improvement in mortar capability, seamlessly linking mortar fires in the future digital battlefield. MFCS allows mortar platoons to maintain TEMPO by providing digitally linked responsive, accurate fire support to maneuver battalions. MFCS dramatically increases survivability with setup times going from 8 minutes to 1 minute, soldiers not having to dismount, semi-autonomous operations and a shoot and scoot capability similar to Paladin. MFCS significantly reduces the probability of fratricide through situational awareness. MFCS maximizes the lethality of the battalion commander's organic 120mm mortars by reducing the circular error probability (CEP) from 230 meters for the current aiming circle to 60 meters. The MFCS is fully compatible with the Advanced Field Artillery Tactical Data System (AFATDS) and links mortars, for the first time, to digital fire support planning and execution by the fire control officer.

JUSTIFICATION:

MFCS is an integral part of Force XXI digitization/modernization. The new Heavy Division Redesign reduces the organic mortar platoon from six guns and two fire direction centers(FDC) to four guns and one FDC. MFCS allows the army to reduce these resources without losing combat power.

The FY00 funding provides for 12 Gun units and 3 fire control centers to field on brigade in the first digitized division. FY01 funding provides for 30 Gun units and 7 fire control centers to field on brigade in the first digitized division.

Type Classification date: 3Q 00 Acquisition Manager: PM MORTARS

Exhibit P-5, Weapon		Appropriation/ Bu	dget Activit				em Nomenclature:	YSTEM (K99300)		Weapon System	Type:	Date:	uary 1999
OPA Cost Analysis				onics Equipment		WORTARE	TINE CONTROLS	131EW (K99300)		120mm & 8°	1mm Mortars	rebi	uary 1999
OPA	ID		FY 98	• •		FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Heavy Gun Heavy FDC Contractor Logistic Support								2124 262 380	12 3	177 87		7	18 8
SUBTOTAL								2766			6412		
PROCUREMENT SUPPORT													
Engineering Support								250			2761		
Post Deployment Software Support Proof and Acceptance Fielding and NET								13			1221 32 30		
SUBTOTAL								263			4044		
NON RECURRING COSTS													
First Article Tests Engineering Data Manuals Other Non-Recurring Engineering								530 181			787 206 250 794		
SUBTOTAL								711			2037		
TOTAL P-1 LINE								3740			12493		

	Exhibit P-5a, Budget Procurement							Date:	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications ar Equipment	nd Electronics	Weapon Syst	ет Туре:		P-1 Line Item	Nomenclature MORTAR F	: FIRE CONTROL SY	'STEM (K	99300)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issu Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Heavy Gun										
FY 00	AlliedSignal Corp Teterboro NJ	OPT	TACOM	Apr-00	Jun-01	12	177	no		Mar-0
FY 01	AlliedSignal Corp Teterboro NJ	OPT	TACOM	Jan-01	Mar-02	30	180	no	Mar00	Oct-0
Heavy FDC										
FY 00	AlliedSignal Corp Teterboro NJ	OPT	TACOM	Apr-00	Aug-01	3	87	no	Mar00	Mar-0
FY 01	AlliedSignal Corp Teterboro NJ	OPT	TACOM	Jan-01	Mar-02	7	89	no		Oct-0

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Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:					
OTHER P	PROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t				INTEGRATED MET	SYS SENSORS (IM	ETS) - TIA (BW002)	
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
	ı		T			1	T	T	r	T		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	18	5			7	89	21					140
Gross Cost	18.3	3.1	1.3	4.9	5.5	7.1	1.0	0.0	0.0	0.0	0.0	41.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	18.3	3.1	1.3	4.9	5.5	7.1	1.0	0.0	0.0	0.0	0.0	41.2
Initial Spares	0.7											0.7
Total Proc Cost	19.0	3.1	1.3	4.9	5.5	7.1	1.0	0.0	0.0	0.0	0.0	41.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: IMETS is a mobile tactical automated weather data receiving, processing, and dissemination system designed to provide timely weather and environmental effects forecasts, observations, and decision aid support to the Army. The IMETS is an Army-furnished system consisting of a standard shelter and vehicle, Army Tactical Command and Control System (ATCCS) common hardware/software (CHS), and communications that will be operated by Air Force weather personnel and maintained within planned Army support for systems and components IAW AR 115-10/AFR 105-3. IMETS is deployed at Echelons Above Corps (EAC), Corps, Division (DIV), Separate Brigade, Armored Cavalry Regiment (ACR) and Special Operations Forces (SOF). Standard Integrated Command Post Shelters (SICPS) mounted on High Mobility Multi-Purpose Wheeled Vehicles (HMMWV) (heavy) house the IMETS. Each IMETS is configured identically and is capable of performing the following functions: (1) receive weather data from all available sources: weather satellites; local and remote weather sensors at higher, lower and adjacent echelon IMETS; weather radar; artillery meteorology sections (ARTYMET); theater forecast units (TFUs) and USAF Global Weather Central; (2) process and display weather information, display weather radar data, display weather satellite data and imagery, and generate Tactical Decision Aids; (3) disseminate weather data, forecasts, and Tactical Decision Aids via area communications system, to all users and to other IMETS at higher, lower and adjacent echelons; (4) operate independently using High Frequency receivers, satellites, or communications networks as appropriate; and (5) relocate with the unit to which it is assigned. Planned Block II fieldings in FY98 and FY99 were deferred to FY00 so that the fielded Block I systems could be updated to the Y2K compliant Block II IMETS. This program redirection will result in the acceleration of the Block I Upgrade and the fielding of 27 IMETS systems one year ahead of schedule.

JUSTIFICATION: FY00 completes the fielding of 27 vehicle mounted systems. FY01 initiates the procurement and fielding of the Lap Top Processor.

IDENTIFICATION CODE: A

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREN				em Nomenclature: FED MET SYS SEI TIA (BW002	NSORS (IMETS) -		Weapon System	Туре:	Date: Feb	ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware Block II IMETS	А	167	*	VAR				1810	7	259	3560	89	40
Block II IMETS Y2K Compliant					1225	*	VAR						
Project Management Administration		280			450			300			300		
3. Engineering Support		682			2330			2377			2363		
Interim Contractor Support		120			247			240			127		
5. Fielding		80			624			742			719		
TOTAL		1329			4876		VAR	5469			7069		
* Accelerated Upgrade of Fielded IMETS to Y2K Compliant Block II Configuration along with Planned Procurement													

	Exhibit P-5a, Budget Procureme	nt History a	and Planning					Date:	February	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Equipment	d Electronics	Weapon Syst	em Type:		P-1 Line Item		e: T SYS SENSORS	(IMETS) -	TIA (BW0	021)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issu Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Block II IMETS										
FY 98	GTE, Taunton, MA		CECOM		May-98	*	VAR		N/A	N/A
FY00	GTE, Taunton, MA		CECOM		May-00		259		N/A	N/A
FY01 (Laptop Processor)	TBS	TBD	CECOM	Oct-00	TBD	89	40	N/A	N/A	N/A
Block II IMETS Y2K Compliant										
FY99	GTE, Taunton, MA	C/Option	CECOM	Dec-98	Jul-99	*	VAR	N/A	N/A	N/A

REMARKS:

All IMETS equipment and software is NDI/COTS purchased through the PM CHS or other Army activities, with Logicon RDA as the Integration Contractor.

^{*} IMETS Procurement Quantity and Cost Vary by System, Y2K Upgrade Vice Block II System.

		Exhibit P-4	0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:					
OTHER P	PROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				TACTICAL C	PERATIONS CENT	ERS (BZ9865)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	Thor rears	1 1 1331	1 1 1990	111333	1 1 2000	1 1 2001	112002	1 1 2003	112004	1 1 2003	10 Complete	Total Flog
Gross Cost	0.0	0.0	0.0	26.6	28.1	27.0	29.6	32.6	0.0	0.0	0.0	143.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	26.6	28.1	27.0	29.6	32.6	0.0	0.0	0.0	143.9
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	26.6	28.1	27.0	29.6	32.6	0.0	0.0	0.0	143.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION:

Army TOCs are the automated facilities where commanders will plan, control, maintain situational awareness, and execute battle command. For the Digitized Army, TOCs will incorporate Army Battle Command Systems (GCCS-A, five ATCCS systems, and Force XXI Battle Command - Brigade and Below (FBCB2)) providing the framework for the digitized battlefield, fully integrated and digitally linked Battlefield Operating Systems (BOSs), and the requirements mandated by the Army Technical Architecture (ATA) and the Defense Information Infrastructure (DII) Common Operating Environment (COE). A standard/common TOC operational architecture and system architecture tailored to the echelon of command and mission area will be developed to assure interoperability and commonality.

JUSTIFICATION:

The Army TOC Program will provide centrally funded TOCs for the First Digitized Division and support warfighting customer initiatives. Army TOCs will ensure the objectives of standardization and interoperability across forces by developing and fielding operationally effective and supportable integrated, digitized tactical operational centers that satisfy the functional information requirements of commanders and staffs at all echelons of command. FY 00-01 dollars will be used to procure integration hardware, integration services, and fielding for TOCs. Army TOCs are the C2 nodes which will, for the first time, provide a digital information-based operation to plan, control, and dynamically update in real time as the situation evolves/changes. The Army TOC Program is critical to the success of Army Digitization Modernization and to provide warfighters with the tools to win the information war.

Exhibit P-5, Weapon		Appropriation/ Bu	-				m Nomenclature:			Weapon System	Туре:	Date:	1000
OPA Cost Analysis		OTHER F Communications	PROCUREM and Electron			TACTIO	CAL OPERATION (BZ9865)	S CENTERS				Febr	uary 1999
OPA	ID		FY 98			FY 99	(DZ9003)		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
System Integration/Hardware*					20425	11	1857	21446	16	1340	22083	16	138
2. Fielding					2750			2993			2205		
3. Project Management Administration					1990			2063			1520		
4. Engineering Support					1465			1596			1176		
TOTAL					26630			28098			26984		
NOTE: SOURCE SELECTION EVALUATION IS CURRENTLY ONGOING, THEREFORE, FUNDING BREAKOUTS AND ALL. POTENTIAL COST INFORMATION IS TENTATIVE AND IS CLASSIFIED "COMPETITION SENSITIVE"													

	Exhibit P-5a, Budget Procureme	nt History a	and Planning					Date:	Febr	uary 1999
Appropriation / Budget Activity/Serial No:	Exhibit 1 da, Badget 1 10 da eme	Weapon Syst			P-1 Line Item	Nomenclature):		. 00.	ua., 1000
OTHER PROCUREMENT / 2 / Communication	ons and Electronics					TACTICAL	OPERATIONS CEN	NTERS (B	Z9865)	
VBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Iss Date
iscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
system Integration										
Y 1999	TBS	TBS	AMCOM	2QFY99	4QFY99	11	1857	YES		
FY 2000	TBS	TBS	AMCOM	1QFY00	3QFY00	16	1340	YES		
FY 2001	TBS	TBS	АМСОМ	1QFY01	3QFY01	16	1380	YES		
SOURCE SELECTION "COMPETITION SEN	I EVALUATION IS CURRENTLY ONGOING; THE	REFORE, FUN	IDING BREAKOUTS AND	ALL POTENT	AL COST I	NFORMAT	TON IS CLASS	SIFIED		

								Date:				
		Exhibit P-4	0, Budget I	tem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	!				
OTHER P	PROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipment	t				ADV FIELD ARTILL	ERY TACT DATA S	YS (AFATD (B28600)	
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
						T =	T =		T =	T =	T = T	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	493	291	245	260	456	468	347	447	398	437	514	4356
Gross Cost	105.4	37.0	35.0	36.1	43.3	48.8	49.6	49.7	49.6	51.3	95.0	600.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	105.4	37.0	35.0	36.1	43.3	48.8	49.6	49.7	49.6	51.3	95.0	600.8
Initial Spares	0.3	2.1	1.6	3.3	2.7	2.7	2.8	2.6	2.6	3.1	2.7	26.5
Total Proc Cost	105.7	39.1	36.6	39.4	46.0	51.5	52.4	52.3	52.2	54.4	97.7	627.3
Flyaway U/C	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Wpn Sys Proc U/C	0.2	0.1	.1	.1	.1	.1	.2	.1	.1	.1	.2	.1

AFATDS is a single integrated battlefield management and decision support system. It will function in the digital battlefield at Firing Platoon through Echelons Above Corps as one of the five automated systems of the Army Battlefield Control Systems (ABCS). AFATDS will be the Fire Support node of the ABCS providing all 27 Fire Support functions, including Fire Support Execution, Fire Support Planning, Movement Control, Field Artillery Mission Planning and Field Artillery Fire Direction Operations. AFATDS will utilize the Army Common Operating Environment architecture and will interface with subsystems subordinate to AFATDS and other ABCS systems via standard communications available to the force.

AFATDS utilizes Common Hardware Software components including the UltraSPARC Computer Unit (UCU), Compact Computer Unit (CCU) and Notebook Computer Unit (NCU), with associated peripheral devices such as printers, modems and external display devices. Responsiveness, survivability and continuity of operations will be enhanced by dispersed processing centers, intelligent remote terminals, a distributed data base and distributed operations. AFATDS will interface with all functional control elements of existing and future Army Fire Support Systems including the other ABCS systems, other services employing Fire Support Joint Interoperability message standards and Allied Forces using NATO Fire Support Standards.

Justification: AFATDS will greatly enhance the fire support capability of the battlefield through responsiveness, survivability and continuity of operations. It will provide a complete fire control command and control capability to the commander. FY00 will procure 3 Field Artillery Brigades, 1 Heavy Division, 1 Armored Cavalry Regiment and will backfill the Independant User Center requirements in previously fielded units. FY01 will procure 5 FAB, 1 Heavy Division, 2 Advance Positioned Sets and 1 Separate Infantry Brigade.

Exhibit P-5, Weapon		Appropriation/ Bu	-				m Nomenclature:			Weapon System	Type:	Date:	1000
OPA Cost Analysis		OTHER F Communications	PROCUREN			ADV FIE	LD ARTILLERY TA (AFATD (B286)					Febr	uary 1999
OPA	ID	Communications	FY 98	onics Equipment		FY 99	(AFATD (B286	00)	FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
OUST Elements	02	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
							4000			4000			
Hardware	Α	19464	245	79	17800	260	68	23692	456	52	27694	468	5
Program Management Administration		2114			2583			2627			2675		
Engineering Support		3985			4376			4422			4415		
Interim Contractor Support		3585			5264			5289			5668		
Fielding Total Package Fielding New Equipment Training		1536 2930			1856 4262			2443 4870			2626 5672		
BCD Support		1340											
TOTAL		34954			36141			43343			48750		

								Date:		
	Exhibit P-5a, Budget Procureme	nt History a	and Planning						February ·	1999
Appropriation / Budget Activity/Serial No:		Weapon Syst	tem Type:		P-1 Line Item	Nomenclatur	e:			
OTHER PROCUREMENT / 2 / Communications and Equipment	d Electronics				ADV	FIELD ARTIL	LERY TACT DATA	SYS (AFA	TDS) (B28	3600)
WBS Cost Elements:	Contractor and Location	Contract	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs	Date	RFP Issue
Fiscal Years		Method and Type			Delivery	Each	\$000	Avail Now?	Revsn Avail	Date
FY98:										
UCU	GTE, Taunton, MA	C/OPTION			May-98	245		yes		
IK	TYAD, Tobyhanna, PA	C/OPTION	CECOM	Jan-98	Jun-98	54	15	yes		
FY99:										
UCU	GTE, Taunton,MA	C/OPTION	СЕСОМ	Jan-99	May-99	69	82	yes		
UCU V1 (Commercial level)	GTE, Taunton,MA	C/OPTION	СЕСОМ	Jan-99		48		yes		
CCU	GTE, Taunton,MA	C/OPTION	СЕСОМ	Jan-99		143	60	yes		
LCU Upgrades	Litton, San Diego , CA	C/OPTION	СЕСОМ	Jan-99	Jun-99	45		yes		
IK	TYAD, Tobyhanna, PA	C/OPTION	CECOM	Jan-99	Jun-99	85	17	yes		
FY00:										
UCU	GTE, Taunton, MA	C/OPTION	СЕСОМ	Jan-00	May-00	138	82	yes		
CCU	GTE, Taunton, MA	C/OPTION		Jan-00	,	108		yes		
NCU	GTE, Taunton, MA	C/OPTION		Jan-00	,	210		yes		
LCU Upgrades	Litton, San Diego, CA	C/OPTION		Jan-00		118		yes		
IK	TYAD, Tobyhanna PA	C/OPTION	СЕСОМ	Jan-00	Jun-00	68	17	yes		
FY01:										
UCU	GTE, Taunton, MA	C/OPTION	СЕСОМ	Jan-01	May-01	158	89	yes		
CCU	GTE, Taunton, MA	C/OPTION		Jan-01		132		yes		
NCU	GTE, Taunton, MA	C/OPTION		Jan-01	May-01	70		ves		
IK	TYAD, Tobyhanna, PA	C/OPTION		Jan-01	Jun-01	125		yes		
	, 13, 11							,		

REMARKS:

The UCU, CCU, NCU and LCU Upgrade Kits are commercial off the shelf hardware being procured off the Common Hardware Software contract.

IK consists of the Commanders Vehicle and FISTV Installation

LCU Upgrades reflect additional components required to upgrade existing LCU workstations which will provide AFATDS functionality within the BFIST. LCUs are supplied to the BFIST program through FY01. After FY01, BFIST will utilize the NCU.

An allowance for tech insertion is provided in FY01 to allow for upgrade of fielded hardware to meet future tech upgrades.

Above qtys reflect items required to equip units identified on P40

		Fxhibit P-4	0. Budget	ltem Justific	cation Sheet			Date:		February 1999		
A			o, Baager	- Com Guotim						rebluary 1999		
Appropriation / Budget Activity/S						P-1 Item Nomenclat	ure:	FIRE OURDS	DT 4D4 0011/5D6	NON (D70 400)		
	PROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen					FIRE SUPPO	ORT ADA CONVERS	SION (B78400)		
Program Elements for Code B I	tems:			Code:	Other Related Progr	ram Elements:						
	1 = 1	=>/ /		=>/ /	= 1,						1= 1	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	282.6	2.1	2.9	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	293.6
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	282.6	2.1	2.9	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	293.6
Initial Spares												
Total Proc Cost	282.6	2.1	2.9	0.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	293.6
Flyaway U/C												
Wpn Sys Proc U/C												·

The Fire Support Ada Conversion (FSAC) is composed of two software programs to provide Command and Control at Corps through platoon level for Multiple Launch Rockets Systems (MLRS) and for tactical fire control for cannon units at platoon and battery levels. FSAC fieldings were completed in May 96. FSAC program funding in the outyears provides for Package 11 upgrades, maintenance of equipment, and future hardware upgrades to maintain technical capabilities.

On 21 April 1995, ODCSOPS further directed PM FATDS to initiate the Lightweight Forward Entry Device (LFED) program with the FSAC funding line. The LFED is a hand held programmable input/output unit used for composing, editing, transmitting, receiving and displaying alphanumeric and graphic messages for transmission over standard military radios.

Justification:

Funding in program outyears will procure various hardware upgrades to maintain technical capacity to support future software requirements.

		Evhibit D /	10 Budget	ltom luctifi	nation Shoot			Date:				
		EXHIBIT P-4	io, Buaget	item Justini	cation Sheet					February 1999		
Appropriation / Budget Activity/	Serial No:					P-1 Item Nomencla	ture:	-				
OTHER	PROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				CMBT SVC SUF	PT CONTROL SYS (CSSCS) (W34600)		
Program Elements for Code B	Items:			Code:	Other Related Prog	ram Elements:						
			•			_	•					
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	111	54	56	105	270	320	217	388	217	228	1115	3081
Gross Cost	10.5	5.8	6.6	9.3	19.9	18.1	15.5	25.4	13.9	18.4	57.4	200.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	10.5	5.8	6.6	9.3	19.9	18.1	15.5	25.4	13.9	18.4	57.4	200.8
Initial Spares	0.4	0.8	0.3	0.2	0.2	0.2	0.2	0.2	0.2		5.7	8.4
Total Proc Cost	10.9	6.6	6.9	9.5	20.1	18.3	15.7	25.6	14.1	18.4	63.1	209.2

The Combat Service Support Control System is an automated command and control (C2) system that supports the CSS component of the Army Battle Command System (ABCS), and provides a critical logistical C2 capability for the Army's Force XXI. It will automate the current manual processes of force level planning and decision-making for commanders and their staffs. CSSCS interoperates both vertically, within the CSS Battlefield Functional Area (BFA), as well as horizontally with other BFA's; namely, Fire Support, Maneuver Control, Intelligence/Electronic Warfare, and Air Defense. CSSCS implements functionally through use of Common Hardware and Software (CHS), Common Operating Environment (COE), reuse software, and unique application software. The total OPA requirement for CSSCS is 3,081 systems.

JUSTIFICATION: FY00/01 funds will support the procurement and fielding of the CSSCS in Full Scale Production. Fielding locations include XVIII Airborne Corps units, U.S. Army Europe (USAREUR) and the training base. This automated CSSCS node is required to support the fielding and operation of ABCS by providing a responsive automated CSS operation that is capable of supporting the Commander's requirement to perform timely predictive and situational analyses.

Exhibit P-5, Weapon		Appropriation/ Bu					m Nomenclature:			Weapon System	Type:	Date:	
OPA Cost Analysis		Communications	ROCUREM and Electro			CMB1 SV	C SUPT CONTRO (W34600)	DL SYS (CSSCS)				Febr	uary 1999
OPA	ID		FY 98	1.1		FY 99	(**34000)		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
High Capacity Computer Unit (HCU) HW		2629	56	47	5702	105	54	13554	270	50	7028	140	50
Small Capacity Unit (SCU) HW											4428	180	2
PM Admin		305			354			1083			1154		
Engineering Support		952			844			911			977		
Total Package Fielding (TPF)		975			1025			1852			1881		
New Equipment Training (NET)		1213			1135			1621			1694		
First Destination Trans (FDT)		51			66			547			653		
Interim Contractor Support (ICS)		261											
Other		262			180			354			275		
TOTAL		6648			9306			19922			18090		

Exhibit	P-5a, Budget Procurement I							Date:	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon Syste	ет Туре:		P-1 Line Item C		e: JPT CONTROL SYS	(CSSCS) (W34600	J)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First		Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Hardware	CTE Tauratan MA	C/Option	CECOM	lan 00	May 00	50	47	V		
FY 98 FY 99	GTE, Taunton, MA			Jan 00	May-98	56			1 '	1 '
FY 99 FY 00	GTE, Taunton, MA	C/Option C/Option		Jan 00	May-99 May-00	105 270			1 '	
FY 00 FY 01	GTE, Taunton, MA TBD		CECOM		May-00 May-01	270 320			1 '	
REMARKS:										

								Date:				
		Exhibit P-4	0, Budget	item Justific	ation Sheet					February 1999		
Appropriation / Budget Activity/Se	rial No:					P-1 Item Nomenclat	ture:	8				
OTHER PR	OCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				FAA	D C2 (AD5050) /(BS	9702)		
Program Elements for Code B Itel	ms:			Code:	Other Related Prog	ram Elements:						
										•		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty *	5	3	1	2	2	2	2	2	3	3	18	43
Gross Cost	74.3	41.9	12.6	13.6	10.6	12.5	12.4	12.4	25.3	41.4	288.2	545.3
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	74.3	41.9	12.6	13.6	10.6	12.5	12.4	12.4	25.3	41.4	288.2	545.3
Initial Spares	4.9	1.2	1.2	0.8	0.4	0.4	0.3	0.4	1.9	2.0	10.9	24.4
Total Proc Cost	79.2	43.1	13.8	14.4	11.0	12.9	12.7	12.8	27.3	43.4	299.1	569.6
Flyaway U/C **	9.0	13.2	11.3	4.4	3.8	4.5	3.8	4.0	7.2	12.9	15.5	10.8
Wpn Sys Proc U/C **	9.9	14.4	13.8	7.2	5.5	6.5	6.4	6.4	9.1	14.5	17.6	12.7

DESCRIPTION: The Forward Area Air Defense Command and Control (FAAD C2) System is an automated system deployed with FAAD weapons to provide accurate and timely command, control, and targeting information for weapon systems. The system utilizes non-developmental item sensors (Light and Special Division Interim Sensor and/or Sentinel (Ground Based Sensor)), computers, displays, and interface hardware integrated with data communication equipment. It automates mission-related functions and uses the Single Channel Ground and Airborne Radio Systems (SINCGARS) for voice and the Army Data Distribution System (ADDS) for data. Limited production of the system was authorized in May 1993 and the first unit equipped was the 101st Airborne Divisions (Air Assault) in September 1993. Since this fielding occurred prior to the availability of the Enhanced Position Location Reporting System (EPLRS) portion of ADDS, additional SINCGARS radios were added to transmit data. On 1 March 1995, this program was designated an Acquisition Category 1C (ACAT 1C) from ACAT 1D by the Undersecretary of Defense for Acquisition and Technology. In April 1995 full scale production was approved and type classification was granted by the Army Acquisition Executive contingent on the Joint Requirements Oversight Council approval of the Operational Requirements Document; the approval was granted in June 1995.

JUSTIFICATION: FY 2000-FY 2001 dollars will be used to procure Common Hardware Software (CHS) computers, displays. software, and Joint Tactical Information Distribution Systems (JTIDS) to field heavy divisions and remaining units. FAAD C2 enables maneuver commanders to receive air attack warnings from Corps, Division, Brigade, and Battalion to the individual shooter. FAAD C2 also enables the alerting of air defense gunners, enhances capability for air space management, and automated uptell of acknowledgment of mission and unit position, ultimately enhancing protection to the Force.

^{* 2} additional prior years units procured during development for a total of 45 units.

^{**} Does not include all SAR data; SAR includes FAADC2 and Sentinel (Ground Based Sensor)

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	PROCUREM	IENT / 2 /		P-1 Line Ite	m Nomenclature: FAAD C2 (AD50	050)		Weapon System	Type:	Date: Feb	ruary 1999
OPA	ID	Communications	FY 98	omeo Equipment		FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
COSt Elements	CD	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware- (Combined CHS and JTIDS)*		8336	1	8336	10245	2	5123	7559	2	3780	9457	2	
** Tadil J Enhancement										5.55			
2. Project Management Administration		945			1017			795			940		
3. Fielding TPF		700			336			290			290		
NET FDT		1538 150			735 40			835 10			880 10		
Interim Contractor Support		387			250			250			250		
5. Engineering Support		536			933			855			710		
TOTAL		12592			13556			10594			12537		
I GIAL		12392			13330			10394			12337		
*QUANTITIES ARE BASED ON ORGANIZA- TIONAL UNITS THAT VARY IN SIZE BASED ON SPECIFIC MISSION AND EQUIPMENT REQUIREMENTS. QUANTITIES REPORTED													
REFLECT A COMPOSITE NUMBER OF SPE- CIFIC REQUIREMENTS (HEAVY DIV, LIGHT DIV, ARMORED CAVALRY REGIMENT, CORPS MISSILE BATTALION, TRAINING BASE, AND SPECIAL DIV).													
** 2 ADDITIONAL PRIOR YEAR UNITS PROCURED DURING DEVELOPMENT FOR A TOTAL OF 45 UNITS													

,	Exhibit P-5a, Budget Procureme	nt History a	nd Planning					Date:	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and E		Weapon Syst			P-1 Line Item	Nomenclatur	re: FAAD C2 (AD50		- co.ua.y	
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issu Date
HARDWARE		and type			Delivery	Lucii	4000		711411	
FY 1998	GTE, TAUNTON, MA	C/OPTION	CECOM	Dec-97	Apr-98	1	8336	YES		
FY 1999	GTE, TAUNTON, MA	C/OPTION	СЕСОМ	Dec-98	Apr-99	2	5123	YES		
FY 2000	GTE, TAUNTON, MA	C/OPTION	СЕСОМ	Dec-99	Apr-00	2	3780	YES		
FY 2001	GTE, TAUNTON, MA	C/OPTION	СЕСОМ	Dec-00	Apr-01	2	4729	YES		
REMARKS:		<u> </u>								

								Date:				
		Exhibit P-4	0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	-				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				FAADC	21 MODIFICATIONS	(AD5090)		
Program Elements for Code B It	tems:			Code:	Other Related Progr	ram Elements:						
									_			
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	5.9	3.9	0.0	0.0	6.3	19.6	69.0	104.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	5.9	3.9	0.0	0.0	6.3	19.6	69.0	104.8
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	5.9	3.9	0.0	0.0	6.3	19.6	69.0	104.8
Flyaway U/C												
Wpn Sys Proc U/C												
				-1	1	1	1	1		1	1	

DESCRIPTION: The Forward Area Air Defense Command and Control (FAADC2) System is an automated system deployed with FAAD weapons to provide accurate and timely command, control, and targeting information for weapon systems. The system utilizes non-developmental item sensors (Light and Special Division Interim Sensor and/or Sentinel (Ground Based Sensor)), computers, displays, and interface hardware integrated with data communication equipment. It automates mission related functions and uses the Single Channel Ground and Airborne Radio Systems (SINCGARS) for voice and Army Data Distribution System (ADDS) for data. The FAADC2 System is a primary Force XXI automated system. It provides airspace situational awareness for friendly Aviation C2, ADA early warning and weapons system cueing, reduced fratricide, Joint and Combined force situational awareness. FAADC2 achieves a correlated sensor fusion of Sentinel and AWACS.

JUSTIFICATION: Initial fieldings of FAADC2 to units used CHS-1 equipment from Program Manager, Common Hardware/Software (PM CHS). PM CHS has since moved from CHS-1 to CHS-2 equipment. Hence, FAADC2 redesigned code and planned future software upgrades based on CHS-2 equipment. This funding allows fielding of increased functionality and supportable hardware to initially fielded high DAMPL units. Specifically, FY00-01 funding procures and fields rebuys of CHS-2 workstations and handheld computers for the first five fielded units (101st AASLT Div, 1st Cav Div, 2d Inf Div, 10th Mtn Div, and 3d Inf Div). CHS-1 equipment becomes unsupportable in the FY 99 time frame. This funding reduces support costs by providing common hardware suites to all fielded units. This is not a new start, previously funded under AD5050.

	Exhibit P-40M Budget I	tem Justific	ation Sheet			Date		February 1999		
Appropriation / Budget Activity/Serial No.				P-1 Item Nomenclatu	re					
OTHER PROCUREMENT	/ 2 / Communications and Electronics Equipment					FAADC2I	MODIFICATIONS (AD5090)		
Program Elements for Code B Items		Code	Other Related Progra	am Elements						
Description	Fiscal Years	<u> </u>	7.5 0000							
OSIP NO. Classif		FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	TC	Total
CHS-2 Upgrades	•		•			•		•	•	
Operat	ional 0.0	0.0	5.9	3.9	0.0	0.0	6.3	19.6	69.1	104.8
Totals	0.0	0.0	5.9	3.9	0.0	0.0	6.3	19.6	69.1	104.8

						IND	IVIDUA	AL MODI	FICATI	ON						D	ate		Februar	y 1999	
MODIFICATION TI	_{TI E} . CH	S-2 U	pgrad	es																	
MODELS OF SYST	TEMS AFFE	CTED:	N/A																		
DESCRIPTION / JU	JSTIFICATI	ON:																			
Procures Con CHS-2.	nmon Ha	rdware	e Softv	ware (CHS) (compu	ters, o	displays	s, soft	ware a	nd ar	ncillary e	quipm	nent to	upgra	de no	n-sup	portal	ole CH	IS-1 to)
DEVELOPMENT S N/A	TATUS / M/	AJOR D	EVELC	PMEN1	MILES	STONES															
Installation Schedul																					
installation Schedul	e: Pr Yr		FY	1999			FY:	2000			FY 2	2001			FY 200)2	Т		FY 2	003	
	Totals	1	2	3	4	1	2		4	1	2	3	4	1	2	3	4	1	2	3	4
Inputs Outputs																					
		FY :	2004			FY 2	005			FY 20	006			FY 200	07			То		7	Totals
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	Co	mplete			
Inputs																					
Outputs		ONI				A DAMAINII	CTD AT		DTIME			Mantha			TIONII		45.	40 1	A 41		
METHOD OF IMPL Contract Dates:	.EIVIEN I A I I	ON:	FY 199	10	N/A	ADMINI	SIKA	FY 2000		:: Dec 99	3	Months		RODUC Y 2001		EADTII	VIE:	12 1	Months		

					IN	DIVIDUA	L MOD	IFICATIO	N							Date		Febru	ary 1999	
MODIFICATION TITLE (Cont):		CH	IS-2 U	pgrade	s															
FINANCIAL PLAN: (\$ in Millions)																				
	FY 199																			
	and Pr			1999		2000		2001		2002		2003		2004		2005	T		TO	
	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$	Qty	\$
RDT&E																				
PROCUREMENT																				
Kit Quantity																				
Installation Kits																				
Installation Kits, Nonrecurring																				
Equipment						5.9		3.9						6.3		19.6		69.1		104.8
Equipment, Nonrecurring																				
Engineering Change Orders																				
Data																				
Training Equipment																				
Support Equipment																				
Other-Spares																				
Interim Contractor Support																				
Installation of Hardware																				
FY 1998 & Prior Eqpt Kits																				
FY 1999 Eqpt Kits																				
FY 2000 Eqpt Kits																				
FY 2001 Eqpt Kits																				
FY 2002 Eqpt kits																				
FY 2003 Eqpt kits																				
FY 2004 Eqpt kits																				
FY 2005 Eqpt kits																				
TC Equip-Kits													<u> </u>							
Total Installment																				
Total Procurement Cost						5.9		3.9						6.3		19.6		69.1		104.8

		Exhibit P-4	l0, Budget ∣	ltem Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	-				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t			AIF	R & MSL DEFENSE F	PLANNING & CTRL S	SYS (AMDPCS)(AD	5070)	
Program Elements for Code B It	tems:			Code:	Other Related Progr	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	0.0	0.0	2.9	4.9	6.4	6.4	6.3	6.4	0.0	33.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	0.0	2.9	4.9	6.4	6.4	6.3	6.4	0.0	33.4
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	0.0	2.9	4.9	6.4	6.4	6.3	6.4	0.0	33.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Air/Missile Defense Planning and Control System (AMDPCS) provides air defense command and control capability to Air Defense Artillery (ADA) Brigades, the Army Air and Missile Defense Command (AAMDC), Corps and above headquarters, and joint force command and control elements, such as the Battlefield Coordination Detachment (BCD). It provides ADA Brigades with a Fire Control System (FCS) for monitoring and controlling subordinate battalions and provides the Air and Missile Defense Workstation (AMDWS) a common defense planning and situational awareness tool, to be fielded to all air and missile defense units at all echelons of command (battery through theater).

JUSTIFICATION: FY 2000-2001 dollars will be used to procure computer hardware and software and ancillary equipment to field to units. This is not a new start, previously funded under AD5050.

Exhibit P-5, Weapon		Appropriation/ Bu					m Nomenclature:			Weapon System	Type:	Date:	
OPA Cost Analysis			PROCUREM and Electr	IENT / 2 / onics Equipment			SL DEFENSE PLA SYS (AMDPCS) (A					⊢eb	ruary 1999
OPA	ID		FY 98			FY 99	710 (71WID1 00) (7	(20070)	FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
System Integration/Hardware								2249	1	2249	3744	1	374
2. Fielding								240			400		
s. Project Management Administration								240			400		
l. Engineering Support								150			250		
5. ICS								60			100		
TOTAL								2939			4894		

Exhib	it P-5a, Budget Procuremer	nt History a	and Planning					Date:	ebruary 1	999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronic		Weapon Syst				Nomenclatur				
Equipment Equipment		Contract	•			SL DEFENSE	PLANNING & CTRI			AD5070) RFP Issue
WBS Cost Elements:	Contractor and Location	Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
FY 2000	TBS	TBS	AMCOM	1QFY00	4QFY00	1	2249	NO		
FY 2001	TBS	TBS	AMCOM	1QFY01	4QFY01	1	3744	NO		
REMARKS:										

								Date:				
		Exhibit P-4	0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	erial No:					P-1 Item Nomencla	ture:	=				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				FORWARD	ENTRY DEVICE (FE	ED) (BZ9851)		
Program Elements for Code B It	ems:			Code:	Other Related Prog	ram Elements:						
			T					1	1	1		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	87.9	10.0	2.3	25.0	15.8	15.9	15.8	14.3	0.0	0.0	0.0	187.1
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	87.9	10.0	2.3	25.0	15.8	15.9	15.8	14.3	0.0	0.0	0.0	187.1
Initial Spares												
Total Proc Cost	87.9	10.0	2.3	25.0	15.8	15.9	15.8	14.3	0.0	0.0	0.0	187.1
Flyaway U/C												
Wpn Sys Proc U/C												

The Forward Entry Device (FED) is an integral part of the digitized fire support system architecture. The FED provides the vital sensor to shooter link required for effective fires. The FED also provides critical situation awareness for forward deployed field artillery units.

The FED program provides the hardware platform to support DoD mandated interoperability /Army digitization requirements (to include implementation of the MIL STD 188-220A protocol and Variable Message Format) to support the new functional user requirements under the next software release and C4I technical architecture requirements. FED is used in the Heavy Divisions by the Forward Observer (FO), Field Artillery (FA) Battery Commanders and Fire Support Team (FST) personnel.

The FED will utilize the same hardware as the Lightweight Forward Entry Device (LFED). FED replacement ensures continued Heavy Division Digital Communications utilizing the Forward Operating System (FOS) software. Without the FED, only manual voice call-for-fire missions will be possible.

Justification: The FY00/01 funds will procure 1251 FED units, for 13 Field Artillery Battalions, 3 Heavy Battalions, 2 Armored Cavalry Regiments, and 9 Separate Brigades.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	PROCUREM and Electro	ENT/2/		FORWARE	em Nomenclature: D ENTRY DEVICE			Weapon System	Туре:		uary 1999
OPA .	ID	T / 10 /	FY 98	11.30	T : 10 :	FY 99	11.70	T . 10	FY 00	11.70	T (10)	FY 01	11.70
Cost Elements	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$OOO	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
1. Hardware		2295	153	15	16614	852	20	12246	626	20	12188	625	20
Program Management Administration					1510			855			871		
3. Engineering Support					3970			637			680		
Contract Support					279			203			200		
5. Fielding					2598			1881			1918		
TOTAL		2295			24971			15822			15857		
FY99 Unit Cost increase is due to the retrofit of previous boxes, increased RAM, an upgrade to a Pentium Plus and the requirement of a printer and IK in certain units. The increase in Engineering Support in FY99 is													
due to the requirement to test and incorporate voice recognition into the software and the HTU box.													
FY98 costs are shared with the FSAC (B78400) line. Hardware peripherals and program office costs were funded under that line.													

	Exhibit P-5a, Budget Procuremen	t History a	nd Planning					Date:	ebruary 1	999
Appropriation / Budget Activity/Serial No:		Weapon Syst			P-1 Line Item	n Nomenclatur	e:			
OTHER PROCUREMENT / 2 / Communica Equipment	itions and Electronics					FORWAR	D ENTRY DEVICE			
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
FY98 HTU	GTE, Taunton, MA	C/OPTION	I CECOM	Jan-98	May-98	153	15	Yes		
FY99 HTU	GTE, Taunton, MA	C/OPTION			May-99					
FY00 HTU	GTE, Taunton, MA	C/OPTION		Jan-00		626				
FY01 HTU	GTE, Taunton, MA	C/OPTION		Jan-01	May-01	625				
				04	1					
REMARKS: The FY98 requiremen		. ' .	1 1 2 2		<u> </u>	<u> </u>				
The FY98 requirement	nt was shared with the FSAC line (B78400). Additional	nardware was	procured under that line.							

								Date:				
		Exhibit P-4	0, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	-				
OTHER P	PROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				STRIKER-COMMA	ND AND CONTROL	SYSTEM (B78500))	
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
	0203758A			В								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty				10	30	35	40	62	57	75	470	779
Gross Cost	0.0	0.0	0.0	6.0	12.3	14.2	16.2	24.0	22.4	30.1	237.8	363.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	0.0	6.0	12.3	14.2	16.2	24.0	22.4	30.1	237.8	363.0
Initial Spares												
Total Proc Cost	0.0	0.0	0.0	6.0	12.3	14.2	16.2	24.0	22.4	30.1	237.8	363.0
Flyaway U/C												
Wpn Sys Proc U/C				.6	.4	.4	.4	.4	.4	.4		

DESCRIPTION: The Striker program integrates the Bradley Fire Support Vehicle (BFIST) mission equipment package (MEP) into a HMMWV chassis supporting heavy and light force fire support operations. The Striker program is a continuation of the BFIST program designed specifically for the Combat Observation Lasing Team (COLT) in heavy divisions and light divisions. The Striker was approved as a Warfighting Rapid Acquisition Program (WRAP) initiative designed to get the Striker operational enhancement to the soldier quickly at the best cost.

JUSTIFICATION: The Striker program modifies components of existing systems and leverages acquisition resources already dedicated for the BFIST program. The Striker program will also leverage test and development activities, along with providing for Horizontal Contract Integration (HCI) across platforms. This strategy will reduce costs and acquisition time, while also affording greater adaptability of the Striker kit to common wheeled platforms.

Exhibit P-5, Weapon OPA Cost Analysis			PROCURENT and Electr			STRIKE	m Nomenclature: R-COMMAND AN SYSTEM (B785	ND CONTROL		Weapon System	Туре:		ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Hardware Costs 1. Vehicle Upgrade					4040	10	404	8799	30	293	10757	35	30
SUBTOTAL					4040			8799			10757		
Non Recurring Production 2. Engineering Contractor 3. Engineering Government 4. Program Management Adminstration 5. Reimbursable Matrix Support 6. Fielding 7. Test & Evaluation					923 468 190 40 186 162			1034 433 175 39 1351 476			957 441 178 39 1842		
SUBTOTAL					1969			3508			3457		
TOTAL					6009			12307			14214		

	Exhibit P-5a, Budget Procuremen							Date:	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications Equipment	s and Electronics	Weapon Syst	tem Type:			m Nomenclatur TRIKER-COMN	re: MAND AND CONTR	OL SYST	EM (B785	00)
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	t QTY Each	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
1. Vehicle Upgrade FY 99 FY 00 FY 01	SEI, St Louis, MO SEI, St Louis, MO SEI, St Louis, MO	SS/FFP SS/FFP	USATACOM, Warren, MI USATACOM, Warren, MI USATACOM, Warren, MI	Jan-99 Nov-99 Nov-00	Dec-99 Oct-00		404 293			
REMARKS:										

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FY 00 / 01 BUDGET PRO	טטעי	TION SC	עםחי						SI	RIKE					NIKOI	LSYS	TEM (I	B7850	00)				Щ,	1	V	. 00	Febru	ary 1	999		
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COST ELEMENTS			V				Т	V	С	Ν	В	R	R	Υ	Ν	L	G	Р	Т	V	С	Ν	В	R	R	Υ	N	L	G	Р	R
Vehicle upgrade																															
	1	FY 99	Α	10	0	10				Α											2	4								4	
	1	FY 00	Α	30	0	30														Α											30
	1	FY 01	Α	35	0	35																			1						35
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COST ELEMENTS			V				Т	V	С	Ν	В	R	R	Υ	N	L	G	Р	Т	V	С	Ν	В	R	R	Υ	N	L	G	Р	R
Vehicle upgrade																															
	1	FY 99	Α	10	10																										
	1	FY 00	Α	30	0	30	2	2	2	2	2	2	2	2	3	3	4	4													
	1	FY 01	Α	35	0	35		Α											2	3	3	3	3	3	3	3	3	3	3	3	
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Total							2	2	2	2	2	2	2	2	2	2	3	3	2	2	3	3	3	3	3	3	3	3	3	3	
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							C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U	U G	E P	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U	U G	E P	
M		P	RODUCT	ION RATES				FR	U	IN	ם	Γ	ľ			AD TI		۲		v MFR	U		TOTAI			MAR		L	G	Г	
F				20		REACHED		nber					Pri	or 1 O			er 1 O	ct.		er 1 O	ct.		ter 1 C		1						
R NAME / LOCATION		MIN.	1	1-8-5	MAX.	D +			INITIA								4			11			15				ehicles				
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								Date:				
		Exhibit P-4	I0, Budget	Item Justifi	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ure:					
OTHER F	PROCUREMENT / 2 / Com	nmunications and El	ectronics Equipmen	nt				LIFE CYCLE SO	FTWARE SUPPORT	(LCSS) (BD3955)		
Program Elements for Code B I	Items:			Code:	Other Related Prog	ram Elements:						
			T.				T	T		1		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	57.8	2.0	1.9	1.2	0.9	1.0	1.0	1.0	1.0	1.0	0.0	68.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	57.9	2.0	1.9	1.2	0.9	1.0	1.0	1.0	1.0	1.0	0.0	68.9
Initial Spares												
Total Proc Cost	57.9	2.0	1.9	1.2	0.9	1.0	1.0	1.0	1.0	1.0	0.0	68.9
Flyaway U/C												
Wpn Sys Proc U/C												

Description: Life Cycle Software Engineering (LCSE)support, by the Software Engineering Center (SEC), provides the essential services needed to maintain CECOM managed fielded Battlefield Automated Systems(BAS) in a state of operational readiness. The Mobile Subscriber Equipment, Firefinder, TRITAC Switches, and Intelligence/Electronic Warfare Systems are some of the 221 BASs supported by the SEC that directly depend on LCSE support to maintain a posture of mission critical readiness. Adequate funding for LCSE support is essential for the acquisition, operation, maintenance and sustainment of multi-host computer systems, peripherals, interfaces, support equipment, test beds, components, and software used to provide the necessary services and support to maintain BASs in the state of operational readiness.

Justification: Policy for Post Production Software Support (PPSS) requires that system managers provide initial host capabilities for new systems, and that the Life Cycle Software Engineering Centers (LCSEC) provide upgrades and replacement of obsolete equipment. Significant portions of host and network equipment are five years old or older and/or reaching obsolescence. There is the requirement to respond to emergency requests from the field for Software Engineering support in order to maintain operational readiness of deployed BASs. With host computers, peripherals(e.g.,memory storage devices, terminals, keyboards, and printers, media and replication equipment) having a life-span of approximately five years and the SEC performing its mission over a continuous period of time beyond five years, equipment must be replaced and/or upgraded regularly to deal with obsolescence and to take advantage of the continual improvements in technology that are indigenous to high-technology based weapon systems and their software support environments in order to meet the ever increasing mission requirements imposed by the field. Funding for this task is essential to provide and maintain the software support environments and LCSE support required to maintain fielded BASs in a state of operational readiness, worldwide, to support the Soldier in the field.

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREM s and Electr			LIFE CYCL	em Nomenclature: LE SOFTWARE S (BD3955)	UPPORT (LCSS)		Weapon System	Type:		oruary 1999
OPA	ID		FY 99			FY 00			FY 01			FY 02	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Sys Development Upgrade for Fire Support Tactical Fusion HW/SW Upgrade IEW/Avionics Upgrade Communications Engrg HW/SW Upgrade Architecture and Technology Upgrade Tactical Fusion HW/SW Upgrade IEW/Avionics Upgrade Communications Engrg HW/SW Upgrade		407 350 100 175 139	1 1	407 350 100 175 139	863	1	863	1017	1	1017	1000	1	10
Total		1171			863			1017			1000		

Evh	ibit P-5a, Budget Procuremer	nt History o	and Planning					Date:	February 1	1000
Appropriation / Budget Activity/Serial No:		Weapon Syst			P-1 Line Item	Nomenclatur	re:		rebruary	1999
OTHER PROCUREMENT / 2 / Communications and Electro Equipment	nics				L	IFE CYCLE S	OFTWARE SUPPO	RT (LCSS) (BD3955	5)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issu
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Sys Development Upgrade for Fire Support FY 99	Telos/Ashburn, VA	C/TM	CECOM	Jan-99	Feb-99	1	407			
Tactical Fusion HW/SW Upgrade FY 99	llex/Camden, NJ	C/TM	CECOM	Jan-99	Feb-99	1	275			
Tactical Fusion HW/SW Upgrade FY 99	TBD	C/IDIQ	CECOM	Mar-99	Aug-99	1	75			
IEW/Avionics Upgrade FY 99	TBD	C/IDIQ	CECOM	Apr-99	Aug-99	1	100			
Architecture and Technology Upgrade FY 99	TBD	C/IDIQ	CECOM	Apr-99	Aug-99	1	139			
Communications Engrg HW/SW Upgrade FY 99	TBD	C/TM	CECOM	Jun-99	Sep-99	1	175			
Tactical Fusion HW/SW Upgrade FY 00	TBD	C/TM	CECOM	Feb-00	Apr-00	1	863			
IEW/Avionics Upgrade FY 01	TBD	C/TM	CECOM	Feb-01	Apr-01	1	1017			
Communications Engrg HW/SW Upgrade FY02	тво	C/TM	CECOM	Feb-02	Apr-02	1	1000			
REMARKS:										

		Exhibit P-4	0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	•				
OTHER P	PROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t					LOGTECH (BZ8889	9)		
Program Elements for Code B Is	tems:			Code:	Other Related Prog	ram Elements:						
	T = T						I	T ==	I =	T =	1=	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	55.6	7.5	12.9	8.2	4.2	4.1	4.2	4.3	4.4	4.5	0.0	109.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	55.6	7.5	12.9	8.2	4.2	4.1	4.2	4.3	4.4	4.5	0.0	109.9
Initial Spares												
Total Proc Cost	55.6	7.5	12.9	8.2	4.2	4.1	4.2	4.3	4.4	4.5	0.0	109.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: LOGTECH or Automatic Identification Technology (AIT) provides state-of-the-art technologies that offer rapid and accurate data capture, retrieval and transmission. The technology includes various radio frequency barcode scanning devices, barcode label and page printers, and various data carrier devices with associated readers and writers. The data carrier devices include optical laser cards, integrated circuit chip cards (smart cards) and PC memory cards. AIT devices are used with automated logistics systems to facilitate and expedite property receiving, distribution, storage, inventory management and accountability. AIT is used throughout the Army at the wholesale (AMC) and retail (STAMIS) supply levels and in automated maintenance, personnel and transportation systems, where rapid and accurate source data collection is required. The AIT contract establishes a baseline of AIT devices for use throughout DoD and ensures standardization and interoperability of this equipment among the Services.

JUSTIFICATION: FY00/01 fieldings support Depot Systems Command, Major Commands and Army STAMIS with AIT and Radio Frequency Portable Data Collection Device (RFPDCD) Networks and printers. Funds will continue these essential initiatives, satisfying logistics requirements in the tactical and nontactical arenas.

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREN			P-1 Line Ite	m Nomenclature: LOGTECH (BZ8	889)		Weapon System	Туре:	Date: Feb	ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
	-	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
AIT Peripherals *	Α	10300	VAR	VAR	6103	VAR	VAR	1682	VAR	VAR	1631	VAR	VAF
RFPDCD Networks **	Α	2244	51	44	2112	48	44	2508	57	44	2508	57	44
Automated Manifest System	Α	324	81	4									
TOTAL		12868			8215			4190			4139		
* AIT Peripherals unit cost varies by item ** Radio Frequency Portable Data Collection Device (RFPDCD)													

Exhibit P-5a, Budget Procuremen		•						Culuary	1999
Floring	vveapon Sys	tem Type:		P-1 Line Item	Nomenclature	ə:			-
Electronics						LOGTECH (BZ88	89)		
	Contract					`	,	Date	RFP Issue
Contractor and Location	Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Avail	Revsn	Date
	and Type			Delivery	Each	\$000	Now?	Avail	
INTERMEC	C/FP	CAC-W	Feb-98	May-98	VAR	VAR	YES		
INTERMEC	C/FP	CAC-W	May-98	Aug-98	VAR	VAR	YES		
INTERMEC	C/FP	CAC-W	Sep-98	Dec-99	VAR	VAR	YES		
INTERMEC	C/FP	CAC-W	Jan-99	Apr-99	VAR	VAR	YES		
INTERMEC	C/FP	CAC-W	Mar-99	Jun-99	VAR	VAR	YES		
TBD	C/FP	CAC-W	Dec-99	Mar-00	VAR	VAR	YES		
TBD	C/FP	CAC-W	Mar-00	Jun-00	VAR	VAR	YES		
TBD	C/FP	CAC-W	Dec-00	Mar-01	VAR	VAR	YES		
TBD	C/FP	CAC-W	Mar-01	Jun-01	VAR	VAR	YES		
INTERMEC	C/FP	CAC-W	Feb-98	May-98	26	44	YES		
INTERMEC	C/FP	CAC-W	May-98	Aug-98		44	YES		
INTERMEC	C/FP	CAC-W	Jan-99		24	44	YES		
INTERMEC	C/FP	CAC-W	Mar-99		24	44	YES		
TBD	C/FP	CAC-W				44	YES		
TBD	C/FP	CAC-W	Mar-00	Jun-00		44	YES		
TBD	C/FP	CAC-W	Dec-00	Mar-01		44	YES		
TBD	C/FP	CAC-W	Mar-01	Jun-01		44	YES		
INTERMEC	C/FP	CAC-W	Jan-98	Apr-98	81	4	YES		
	INTERMEC INTERMEC INTERMEC INTERMEC TBD TBD TBD TBD INTERMEC INTERMEC INTERMEC INTERMEC INTERMEC INTERMEC TBD TBD TBD TBD TBD TBD	INTERMEC INT	INTERMEC C/FP CAC-W INTERM	INTERMEC INT	Intermed	INTERMEC C/FP CAC-W May-98 Avar-99 VAR INTERMEC C/FP CAC-W May-98 Avar-99 VAR INTERMEC C/FP CAC-W May-98 Avar-99 VAR INTERMEC C/FP CAC-W May-98 Avar-99 VAR INTERMEC C/FP CAC-W May-99 VAR INTERMEC C/FP CAC-W May-99 VAR INTERMEC C/FP CAC-W May-99 VAR INTERMEC C/FP CAC-W May-99 VAR TBD C/FP CAC-W May-99 May-99 VAR TBD C/FP CAC-W May-90 May-90 VAR TBD C/FP CAC-W May-90 May-90 VAR TBD C/FP CAC-W May-90 May-90 VAR VA	Intermed	INTERMEC C/FP CAC-W May-98 Aug-98 VAR VAR YES VAR VAR YES INTERMEC C/FP CAC-W May-98 Date of First Delivery Each SOOO Now? INTERMEC C/FP CAC-W May-98 Aug-98 VAR VAR YES VAR VAR YES VAR VAR YES VAR VAR YES VAR VAR YES VAR VAR YES VAR VAR YES VAR VAR YES VAR VAR YES VAR VAR YES VAR VAR YES VAR VAR YES VAR VAR YES VAR VAR VAR YES VAR VAR VAR YES VAR VAR VAR YES VAR VAR VAR VAR VAR YES VAR	INTERMEC C/FP CAC-W Mar-99 May-98 VAR VA

INTERMEC - Intermec Technologies Corporation, Everett, WA CAC-W - CECOM Acquisition Center - Washington

^{*} AIT Peripherals unit cost varies by item configuration

^{**} Radio Frequency Portable Data Collection Device (RFPDCD)

		Exhibit P-4	l0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	-				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t								
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	0.0	1.8	0.4	1.7	1.4	1.4	1.2	1.2	1.3	0.0	10.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	1.8	0.4	1.7	1.4	1.4	1.2	1.2	1.3	0.0	10.5
Initial Spares												
Total Proc Cost	0.0	0.0	1.8	0.4	1.7	1.4	1.4	1.2	1.2	1.3	0.0	10.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Transportation Coordinator-Automated Information Movements System II (TC-AIMS II) is a joint program which will consolidate management of the unit/installation-level transportation functions of Unit Movement, Load Planning and Installation Transportation Office/Traffic Management Office (ITO/TMO) operations into a single automated capability for use throughout DoD. Reducing systems redundancy, functionalities of unit movement, load planning and ITO/TMO transportation AISs will be migrated into TC-AIMS II applications. TC-AIMS II will provide a common hardware suite running software applications designed for easy data retrieval, data exchange and connectivity to relevant external sources. Open systems architecture is emphasized throughout for standardization and interoperability and for ease of system growth and maintenance.

JUSTIFICATION: TC-AIMS II will provide critical data to the Global Transportation Network and Service-designated Command and Control systems. TC-AIMS II is the foundation for joint transportation process improvement. FY00/01 funding procures upgrades for existing hardware and COTS software licenses to support up to 21K users.

		PROCUREN				m Nomenclature: TC AIMS II (BZ8	900)		Weapon System	21	Date: Feb	ruary 1999
ID		FY 98			FY 99			FY 00			FY 01	
CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
А	1826	*VAR	VAR	444	*VAR	VAR	439	*VAR	VAR	140	*VAR	VAI
							1300	VAR	VAR	1300	VAR	VAI
	1826			444			1739			1440		
	CD	Communications ID CD TotalCost \$OOO A 1826	Communications and Electr ID CD TotalCost Qty SOOO Each A 1826 *VAR	CD TotalCost Qty UnitCost \$000 Each \$000 A 1826 *VAR VAR	Communications and Electronics Equipment	Communications and Electronics Equipment	ID	Communications and Electronics Equipment	Communications and Electronics Equipment	ID	ID	ID

	Exhibit P-5a, Budget Procureme							Date:	February	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications a	nd Electronics	Weapon Syst	em Type:		P-1 Line Item	Nomenclatur				
Equipment	1.0 2.00.0.0.00						TC AIMS II (BZ89			
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issu Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
FY 98	VAR*	C/FP	GSA/FEDSIM	Mar-98	Jun-98	VAR	VAR	YES		
				Jun-98	Sep-98					
FY 99	TBS	C/FP	CAC-W & GSA	Jan-99	Apr-99	VAR				
FY 00	TBS	C/FP	CAC-W & GSA	Dec-99		VAR				
FY 01	TBS	C/FP	CAC-W & GSA	Dec-00	Mar-01	VAR	VAR	YES		
COTS software licenses:										
Supports up to 21K users										
FY 00	LOGICON	C/FP	GSA		Dec-99	VAR				
FY 01	LOGICON	C/FP	GSA	Dec-00	Dec-00	VAR	VAR	YES		
* Configurations vary by site										

Contractor are: McBride & Associates, Alberquerque, NM and Tech, Mgmt & Analysis Corp, McLean, VA

GSA - Government Services Administration, Kansas City, MO

FEDSIM - Federal Systems Integration Management Center, Falls Church, VA

CAC-W - CECOM Acquisition Center - Washington

LOGICON - San Pedro, CA

								Date:				
		Exhibit P-4	0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	=				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				GUN LAYING	G AND POS SYS (G	_PS) (A30000)		
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
			T					T	1	1		
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty			64	61	81	92	93					391
Gross Cost	0.0	0.0	5.8	6.3	7.5	8.5	8.4	0.0	0.0	0.0	0.0	36.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)		0.0	5.8	6.3	7.5	8.5	8.4	0.0	0.0	0.0	0.0	36.4
Initial Spares	11.5											11.5
Total Proc Cost	11.5	0.0	5.8	6.3	7.5	8.5	8.4	0.0	0.0	0.0	0.0	47.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Gun Laying and Positioning System (GLPS) will be a modular, lightweight, cost effective Non-Developmental Item (NDI) that will give each towed and self-propelled non-Paladin firing battery autonomous positioning and directional capability. The GLPS will rapidly self-locate and determine azimuth/deflection and position (Universal Transverse Mercator (UTM) coordinates and altitude) of each howitzer from one centrally located orienting station. The GLPS will consist of a tripod mounted gyroscope integrated with an electronic digital optical instrument, eye-safe laser rangefinder, and transport case(s). Use of the GLPS also requires the AN/PSN-11 Precision Lightweight Global Positioning System (GPS) Receiver (PLGR), which has already been authorized in FY00.

JUSTIFICATION: This system will decrease the time required to survey and lay a howitzer battery from 2 hours to 14 minutes. The GLPS will displace one of the two Position and Azimuth Determining Systems (PADS) and the associated PADS crew within each Field Artillery Battalion. The FY00 funding is a continuation of GLPS production to be fielded to the active Army and National Guard.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	ROCUREN	IENT/2/			m Nomenclature: AYING AND POS (A30000)			Weapon System	Туре:	Date: Feb	uary 1999
OPA	ID	Communications	FY 98	omoo Equipmon		FY 99	(A30000)		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Hardware	Α	5316	64	83	5067	61	83	6599	81	81	7527	92	82
2. Engineering Support (In-House)		103			254			163			175		
3. Quality Support (ARDEC)					212			91			92		
4. Logistics Support		305			318			167			186		
5. First Destination Transportation		6			79			105			125		
6. Total Package Fielding/New Equip Trng		50			383			340			366		
TOTAL		5780			6313			7465			8471		

								Date:		
Exhibit F	P-5a, Budget Procurement I							l'	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon Syste	em Type:		P-1 Line Item	n Nomenclature GUN LAYIN	re: NG AND POS SYS ((GLPS) (A	430000)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years	<u> </u>	and Type	<u> </u>		Delivery	Each	\$000	Now?	Avail	<u> </u>
1. Hardware FY98	Leica Technologies, Inc Leesburg, VA	SS/FFP	ACALA	Oct-98	Sep-99	64	83	Yes	No	
FY99	Leica Technologies, Inc Leesburg, VA	SS/FFP	ACALA	Apr-99	Apr-00	61	83	Yes	No	
FY00	Leica Technologies, Inc Leesburg, VA	SS/FFP	ACALA	Mar-00	Aug-00	81	81	Yes	No	
FY01	Leica Technologies, Inc Leesburg, VA	SS/FFP	ACALA	Feb-01	Jun-01	92	82	Yes	No	
REMARKS:										

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FY 00 / 01 BUDGET PRODU	CHON	SCH								GL				POS S	YS (G	SLPS)	(A300	00)						_			Febr	uary 1	999		
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	M F FY			QTY Each	PRIOR TO	DUE	_	l vi			-		_			_	ar 98					_	Т =				Year	-		_	A
	F FY R		≣ I	Eacn	1 OCT	AS OF 1 OCT	0 C	N O	D E	J A	F E	M A	A P	M A	J U	J	A U	S E	0 C	N O	D E	J A	F E	M A		M A	J	J	A U	S E	T E
COST ELEMENTS							T	V	C	N	В	R	R	Y	N	Ĺ	G	P	T	V	C	N	В	R			N	Ĺ	G	P	R
Hardware	1 97 &	Pr N	G	14		14													Α						Т	T					14
	1 98		4	64		64													Α											12	52
	1 98	N	G	7		7													Α						1	1					7
	1 99		4	61		61																			А	1					61
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Total				319		319																								12	307
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							C T	0	E	A	Е	A	Р	A Y	U	U	U	E P	C T	0	E	A					U	U	U	E P	
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		Exhibit P-4	10, Budget	ltem Justific	cation Sheet					February 1999		
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OTHER P	PROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				ISYSO	ON EQUIPMENT (B	X0007)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
	28010.107			А			ВВ	1600				
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												<u> </u>
Gross Cost	12.7	2.7	14.7	15.1	14.7	17.1	19.2	2.9	0.0	0.0		99.1
Less PY Adv Proc												<u> </u>
Plus CY Adv Proc												<u> </u>
Net Proc (P-1)	12.7	2.7	14.7	15.1	14.7	17.1	19.2	2.9	0.0	0.0		99.1
Initial Spares												<u> </u>
Total Proc Cost	12.7	2.7	14.7	15.1	14.7	17.1	19.2	2.9	0.0	0.0		99.1
Flyaway U/C												<u> </u>
Wpn Sys Proc U/C												

DESCRIPTION:

Integrated System Control (ISYSCON) provides a centralized capability for planning and managing all tactical communication networks on the battlefield; and interface with each battlefield functional area in the ATCCS architecture. The ISYSCON serves as the architectural foundation on which to build network management at Division through Echelons Above Corps. It will serve as the baseline for the management of WIN upon which to build the Joint Network Management System (JNMS). The ISYSCON software will reside on CHS II Hardware Platforms in a client/server architecture. The server terminals are located in SICPS Shelters, and client terminals are located in the SICPS tent. The major functions of ISYSCON are network planning and engineering, signal command and control, battlefield spectrum management, wide area network management and COMSEC management. The emergence of data networks at all echelons, and specifically the Tactical Internet, has caused greater responsibility on ISYSCON as the focal point for managing the interconnection of C3S systems, to include the management of network security and intrusion detection. ISYSCON is key to successful communications management for the First Digitized Division (FDD)/First Digitized Corps (FDC), and is a critical part of the Army Vision 2010 for Information Dominance.

JUSTIFICATION:

The ISYSCON program provides the network management of WIN-Terrestrial (WIN-T), interfaces with battlefield functional areas in ATCCS architecture, and initial planning of joint communications management protocols, and solves significant shortcomings in today's network management systems. FY 00/01 funding provides for production of Echelons Corps and Below (ECB) and Echelons Above Corps (EAC) hardware, facilities, and software licenses to accommodate network management support for First Digitized Division (FDD) and First Digitized Corp (FDC) requirements.

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREN				m Nomenclature: CON EQUIPMEN	T (BX0007)		Weapon System	Туре:	Date: Feb	uary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
OOST Elements		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. Production System a. GFE/CHS/SICPS b. System Integration/Fldg c. Upgrades-LRIP 2. Engineering Support a. Contractor b. Government 3. Production Software/PDSS 4. Battlefield Spectrum Management (BSM) 5. Test 6. ECP 7. Initial Spares 8. Contract Service Field Rep.	В	554 275 936 12952 23	Ladii	\$	\$953 1345 516 862 1000 500 770 500 687	14 14	640 96	7704 1153 593 1034 1000 1500 370 450 756 154	12 12	642 96	9488 1345 491 1163 1000 1500 360 850 795 157	14 14	678 96
TOTAL		14740			15133			14714			17149		

	Exhibit P-5a, Budget Procureme							Date:	February ⁻	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Equipment	Electronics	Weapon Syst	tem Type:		P-1 Line Item		e: SCON EQUIPMENT	(BX0007))	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date		QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issu Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
1. Production Software	GTE Raleigh, NC	FP/OPT	CECOM	Nov-97	Sep-98	N/A		YES		
FY 1998 GFE/Hardware	GTE Raleigh, NC	GFE	CECOM		Sep-98	N/A		YES		
FY 1999 GFE-CHS	GTE Taunton, MA	FP/OPT	CECOM	Mar-99	Nov-99	14	586	YES		
FY 1999 SICPS Facility	Gichner Dallastown, PA		PM TOC	Mar-99	Feb-00	14	150			
FY 2000 GFE-CHS	GTE Taunton, MA		CECOM	Oct-99	Jun-00	12				
FY 2000 SICPS Facility	Gichner, Dallastown, PA		PM TOC	Oct-99	Sep-00	12	150			
FY 2001 GFE-CHS	GTE Taunton, MA		CECOM	Oct-00	Jun-01	14	623			
FY 2001 SICPS Facility	Gichner, Dallastown, PA	FP/OPT	PM TOC	Oct-00	Sep-01	14	150	YES		
2. Battlefield Spectrum Management (BSM)										
FY 1999	IITRI Annapolis, MD		CECOM	Oct-98		N/A		YES		
FY 2000	IITRI Annapolis, MD		CECOM	Oct-99	Sep-00	N/A		YES		
FY 2001	IITRI Annapolis, MD	FP/OPT	CECOM	Oct-00	Sep-01	N/A		YES		

FY98/99 Supports Legacy System Upgrades and Fielding to FDD/FDC in FY 00-04.

FY00/01 reflects costs to procure GFE Hardware and Software licenses for the combinations of (V)1 and (V)2 configurations at ECB and EAC; with various Unit Costs.

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								Date:				
		Exhibit P-4	10, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ure:	<u> </u>				
OTHER P	ROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				MANEUVER C	CONTROL SYSTEM	(MCS) (BA9320)		
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
PE 020	3740A Project D484			В								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty	1921	81	46		653	663		159	428	697	3440	8088
Gross Cost	367.8	13.0	0.0	13.0	52.0	50.7	0.6	20.6	42.9	55.9	324.1	940.7
Less PY Adv Proc												
Plus CY Adv Proc												·
Net Proc (P-1)	367.8	13.0	0.0	13.0	52.0	50.7	0.6	20.6	42.9	55.9	324.1	940.7
Initial Spares	46.2	0.8				5.0					39.9	91.9
Total Proc Cost	414.0	13.8	0.0	13.0	52.0	55.7	0.6	20.6	42.9	55.9	364.0	1032.6

DESCRIPTION: The Maneuver Control System (MCS) is an automated tactical Command, Control and Communications (C3) system which provides a network of computer terminals to process combat information for battle staffs. It provides automated assistance in the collection, storage, review and display of information to support the commander's decision process. Both text and map graphics are provided to the user. It enables operation staffs, G3/S3, to process and distribute estimates, plans, orders and reports. The system is designed to operate with existing and planned communications networks. This is an evolutionary development including planned system improvements to insure increasing Command and Control (C2) capabilities and infusion of current technology while, in the interim, providing an essential core capability.

JUSTIFICATION: MCS is the key to the commander's situational awareness and common picture of the battlefield. It will incorporate all fire support, intelligence, air defense, logistics, and maneuver information concerning friendly and enemy forces, and then enable the commander to effectively make decisions, issue orders, allocate resources, and fight the battle.

The MCS Common Hardware/Software (CHS) equipment is needed to equip the active force with an automated C2 capability. This program is an integral part of the Army Tactical Command and Control System (ATCCS) and is critical to the successful operation of the overall system. This generation of computers will incorporate advances in technology and achieve Life Cycle Cost savings due to commonality of support.

FY00 and FY01 funding will be required to purchase and field computer systems to First Digitized Corps Units such as the 4ID, 1st Cav Div, III Corps, and the 3rd ACR. This funding will also enable the procurement of the remainder of the TRADOC institutional training base.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	PROCUREN	MENT/2/			m Nomenclature: /ER CONTROL S (BA9320)	YSTEM (MCS)		Weapon System	Туре:	Date: Feb	uary 1999
OPA	ID		FY 98			FY 99	(BA9320)		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
1. HARDWARE													
a. Computer Systems CHS-2					3077	46	67	31360	653	48	29432	663	44
b. Test Hardwarec. Test Sparesd. Training Hardware													
PERIPHERALS: Printer, Large Screen Display, Tactical Scanner, Large Scale Plotter					489			2756			3200		
2. PROJECT MANAGEMENT ADMIN.					2892			2836			2887		
3. TEST													
a. Test Transportation b. Test Support													
4. FIELDING													
a. New Equipment Training Team (NETT)b. 1st Destination Transportationc. Total Package Fielding (TPF)					1581 149 171			5551 244 558			5348 177 776		
5. INTERIM CONTRACTOR SUPPORT (ICS)					1354			4504			4320		
OTHER CHS-2 Support Cost Includes: MCS Data, Licenses, Software Support, GBLs, COTS Software Maintenance					3285			4240			4589		
NOTE: 1st Destination Transportation Includes SICPS Transportation													
TOTAL					12998			52049			50729		

								Date:		
Exhibit	P-5a, Budget Procurement	History a	and Planning					- 1	February 1	1999
Appropriation / Budget Activity/Serial No:		Weapon Syste	em Type:		P-1 Line Item	Nomenclature	i.			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment						MANEUVER	CONTROL SYSTEM	И (MCS) (BA9320)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	Date
a. Computer Systems - CHS-2										
FY 99	GTE, Taunton, MA	C/FP/OPT		Apr-99	Sep-99	46	67			
FY 00	GTE, Taunton, MA	C/FP/OPT		Jan-00	Jul-00	653		Yes		
FY 01	GTE, Taunton, MA	C/FP/OPT	CECOM	Jan-01	Jul-01	663	44	Yes		
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REMARKS: The above hardware is COTS and is pro	cured on the existing CHS-2 contract.									

	·							Date:				
		Exhibit P-4	0, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	erial No:					P-1 Item Nomenclat	ture:	!				
OTHER P	ROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t				STAMIS TACTICA	L COMPUTERS (ST	ACOMP) (W00800)		
Program Elements for Code B It	ems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	331.7	42.4	30.9	48.1	33.7	38.7	50.7	56.0	56.9	56.5	0.0	745.5
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	331.7	42.4	30.9	48.1	33.7	38.7	50.7	56.0	56.9	56.5	0.0	745.5
Initial Spares												
Total Proc Cost	331.7	42.4	30.9	48.1	33.7	38.7	50.7	56.0	56.9	56.5	0.0	745.5
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: STAMIS Tactical Computers (STACOMP) are a group of Commercial Off-the-Shelf (COTS) computer systems supporting STAMIS tactical computer requirements for the US Army. These systems, used by soldiers on the battlefield to support Combat Service Support (CSS) missions at all levels, are transportable and user friendly. STACOMP COTS supports the following STAMIS: Standard Army Retail Supply System (SARSS), Standard Army Ammunition System (SAAS), Standard Army Maintenance System (SAMS), Department Army Movements Management System Redesign (DAMMS-R), Unit Level Logistics System (ULLS), Global Combat Support System-Army (GCSS-Army) and Standard Installation Division Personnel System-3 (SIDPERS-3).

GCSS-Army will be the business/tactical automation enabler for the total Army CSS mission area and will constitute the Army portion of the GCSS. GCSS-Army will be implemented in three tiers: Tier 1 will include functionality of existing logistics STAMIS (SARSS, SAAS, SAMS and ULLS). Tier 2 will integrate the logistics wholesale and retail levels of CSS. Tier 3 will implement all required interfaces with AIS of the Joint community, national sustaining base and applicable allied systems. Milestone 0/I/II approval for GCSS-Army, Tier 1 and Milestone 0 approval for Tiers 2 and 3 was granted in May 1997. Development and fielding of GCSS-Army will follow an incremental acquisition strategy combining development with incremental fielding of capability packages. GCSS-Army will consist of six major modules – Supply/Property, Maintenance, Ammunition Supply, Supply Support, Integrated Materiel Management Center and Management. Beginning in FY98, all STACOMP COTS hardware purchased for logistics STAMIS will support GCSS-Army functionalities. Upon completion of fielding, GCSS-Army Tier 1 will replace SARSS, SAAS, SAMS and ULLS. Until that time, these systems will continue to be maintained at minimally acceptable levels.

JUSTIFICATION: FY00/01 funds procure COTS microcomputers for GCSS-Army, SIDPERS and STAMIS support systems.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	PROCUREN and Electro	IENT/2/		STAN	m Nomenclature: IIS TACTICAL CO (STACOMP) (WO			Weapon System	Туре:		ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000	TotalCost \$000	Qty Each	UnitCost \$000
COTS Microcomputers* for:	Α	ΨΟΟΟ	Lacii	ΨΟΟΟ	φυσυ	Lacii	φοσο	ΨΟΟΟ	Lacii	φοσο	φοσο	Lacii	ΨΟΟΟ
DAMMS -R		1424	VAR	VAR									
SAAS		2224	VAR	VAR	1000	VAR	VAR						
SAMS		4180	VAR	VAR	6695	VAR	VAR						
SARSS		2228	VAR	VAR	9975	VAR	VAR						
ULLS		9015	VAR	VAR	8937	VAR	VAR						
GCSS-Army		974	VAR	VAR	9731	VAR	VAR	27812	VAR	VAR	32916	VAR	VAR
SIDPERS-3		10480	VAR	VAR	11595	VAR	VAR	5596	VAR	VAR	5590	VAR	VAR
STAMIS Support		379	VAR	VAR	182	VAR	VAR	303	VAR	VAR	183	VAR	VAR
TOTAL		30904			48115			33711			38689		
* Configurations vary by user requirements and site													

	Exhibit P-5a, Budget Procureme	nt History a	and Planning					Date:	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications an Equipment	nd Electronics	Weapon Syst	тет Туре:			Nomenclature	e: CAL COMPUTERS ((STACOM	P) (W0080	00)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
COTS Microcomputers* for: DAMMS -R										
FY 98	GTSI	C/FP	CAC-W		May-98 Sep-98	VAR	VAR	YES		
SAAS										
FY 98	GTSI	C/FP	CAC-W	Jun-98 Jul-98	Aug-98	VAR	VAR	YES		
FY99	GTSI	C/FP	CAC-W	Sep-98 Dec-98		VAR	VAR	YES		
SAMS										
FY 98	GTSI	C/FP	CAC-W	Dec-97 Jan-98 Apr-98	Feb-98	VAR	VAR	YES		
FY 99	GTSI	C/FP	CAC-W	Dec-98 May-99		VAR	VAR	YES		
SARSS										
FY 98	VANSTAR	C/FP	CAC-W	Apr-98 Jun-98	May-98 Jul-98	VAR	VAR	YES		
ULLS										
FY 98	GTSI	C/FP	CAC-W	Dec-97 Mar-98 May-98		VAR	VAR	YES		
FY 99	GTSI	C/FP	CAC-W	Dec-98 Jun-99	Jan-99	VAR	VAR	YES		

- 1) Configurations (quantity and unit cost) vary by user requirement
- 2) Standard Requirements Type Contracts will be used to procure these COTS microcomputers such as: STAMIS Computer Contract II (SCC II) & Supermini
- 3) Contractors are: Government Technology Systems, Inc., Chantilly, VA and Vanstar Government Systems, Inc., Fairfax, VA

	Exhibit P-5a, Budget Procureme	nt History a	and Planning					Date:	February 1	999
Appropriation / Budget Activity/Serial No:		Weapon Sys			P-1 Line Item	Nomenclatur	e:			
OTHER PROCUREMENT / 2 / Communicat	tions and Electronics				ST	AMIS TACTIO	CAL COMPUTERS (STACOM	P) (W0080	0)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issu Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
GCSS-Army										
FY 98	GTSI	C/FP	CAC-W	Jun-98 Aug-98	Jul-98 Sep-98	VAR	VAR	YES		
FY 99	GTSI	C/FP	CAC-W	Jun-99	Jul-99	VAR	VAR	YES		
FY 00	GTSI	C/FP	CAC-W	VAR*	VAR*	VAR		YES		
FY 01	GTSI	C/FP	CAC-W	VAR*	VAR*	VAR	VAR			
SIDPERS-3										
FY 98	GTSI	C/FP	CAC-W	Mar-98		VAR	VAR	YES		
				Jun-98	Jul-98					
				Aug-98						
FY 99	GTSI	C/FP	CAC-W	Dec-98		VAR	VAR	YES		
				Jan-99	Feb-99					
FY 00	GTSI	C/FP	CAC-W	Apr-99 Dec-99	May-99 Jan-00	VAR	VAR	YES		
F 1 00	G151	C/FP	CAC-VV	Jan-00	Feb-00	VAK	VAR	150		
FY 01	GTSI	C/FP	CAC-W	Dec-00		VAR	VAR	YES		
1 1 01	0131	0/11	CAC-VV	Jan-01	Feb-01	VAIX	VAIX	ILO		
				Jan-on	1 65-01					
STAMIS Support										
FY 98	GTSI	C/FP	CAC-W	Mar-98	Apr-98	VAR	VAR	YES		
FY 99	GTSI	C/FP	CAC-W	Mar-99	Apr-99	VAR	VAR	YES		
FY 00	GTSI	C/FP	CAC-W	Mar-00	Apr-00	VAR	VAR	YES		
FY 01	GTSI	C/FP	CAC-W	Mar-01	Apr-01	VAR	VAR	YES		

- 1) Configurations (quantity and unit cost) vary by user requirement
- 2) Standard Requirements Type Contracts will be used to procure these COTS microcomputers such as: STAMIS Computer Contract II (SCC II) & Supermini
- 3) Contractors are: Government Technology Systems, Inc., Chantilly, VA and Vanstar Government Systems, Inc., Fairfax, VA

^{*} Multiple award and delivery dates throughout the FY. COTS will continue to be purchased for legacy STAMIS with the GCSS-Army software being added as it becomes available to replace the legacy STAMIS software.

		Exhibit P-4	0, Budget	Item Justific	cation Sheet			Date:		February 1999
Appropriation / Budget Activity/	Serial No:					P-1 Item Nomencla	ture:			
OTHER PI	ROCUREMENT / 2 / Con	nmunications and El	ectronics Equipme	nt				STANDARD INTEG	GRATED CMD POST	SYSTEM (BZ9962
Program Elements for Code B	Items:			Code:	Other Related Prog	gram Elements:				
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005
Proc Qty					1 1 2000	=				
Gross Cost	37.9	39.6	32.6	26.7	30.7	34.8	17.9	20.2	32.8	22.6
Less PY Adv Proc										
Plus CY Adv Proc										
Net Proc (P-1)	37.9	39.6	32.6	26.7	30.7	34.8	17.9	20.2	32.8	22.6
Initial Spares										
Total Proc Cost	37.9	39.6	32.6	26.7	30.7	34.8	17.9	20.2	32.8	22.6
Flyaway U/C										
Wpn Sys Proc U/C										

DESCRIPTION: This program includes the procurement of five command post variants, each designed to accommodate the various Battlefield Functi Army Battle Command System (ABCS). These include the Army Tactical Command and Control System (ATCCS), the Advanced Field Artillery Tactic (AFATDS), the Command Service Support Control System (CSSCS), the Forward Area Defense Command and Control System (FAADC2), the Extended Command and Control System (EAD), and the Integrated Meterological System (IMETS). The five command post variants are:

- (1) A Tent Command Post (CP) that consists of a lightweight aluminum frame, interchangeable fabric wall sections, fabric roof, floors and liners, work t mapboards, and light set. The Tent CP can be complexed to other tents and to other SICPS variants via an interface wall.
- (2) A Rigid Wall Shelter (RWS) CP mounted on the Heavy High Mobility Multipurpose Vehicle (HHMMWV) Shelter Carrier consisting of an on-board geconversion/distribution system, environmental control unit, collective chemical protection, signal and power pass-through panels, antenna mounts, equequipment racks to accommodate two ABCS workstations, operator seats, a vehicle intercom system and a 10 meter Quick Erect Antenna Mast (QEAM)
- (3) Conversion Kits for the M577 Track Vehicle consisting of equipment racks for two ABCS workstations, power and signal panels, tent interface panel antenna mounts, stowage provisions, an updated Auxillary Power Unit (APU), a vehicular intercom system, a power distribution system, a 10 meter QE signal/data wiring module. The converted M577 has been designated the M1068 Track CP.

To Complete	Total Prog
19.9	315.8
19.9	315.8
19.9	315.8
Functional A	*******

t variants, each designed to accommodate the various Battlefield Functional Areas of the mand and Control System (ATCCS), the Advanced Field Artillery Tactical Data System ard Area Defense Command and Control System (FAADC2), the Extended Air Defense n (IMETS). The five command post variants are:

interchangeable fabric wall sections, fabric roof, floors and liners, work tables, o other SICPS variants via an interface wall.

urpose Vehicle (HHMMWV) Shelter Carrier consisting of an on-board generator, power protection, signal and power pass-through panels, antenna mounts, equipment mounts, icle intercom system and a 10 meter Quick Erect Antenna Mast (QEAM).

or two ABCS workstations, power and signal panels, tent interface panel, operator seats, a vehicular intercom system, a power distribution system, a 10 meter QEAM, and a 68 Track CP.

Exhibit P-40C Budget In	tem Justific	cation Sheet		Date February 1999
Appropriation / Budget Activity/Serial No.			P-1 Item Nomenclature	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				STANDARD INTEGRATED CMD POST SYSTEM (BZ9962)
Program Elements for Code B Items	Code	Other Related Progr	ram Elements	
(4) Installation Kits for the 5-Ton Expansible Van (E-Van) panel, signal entry panel, antenna mounts, mapboards, a	•	•	•	s, centralized communications rack, communications patch dated power distribution wiring and signal/data wiring.
(5) Installation Kits for the Soft-Top HHMMWV consisting operator work surface, data patching module, white canva				ns, communications patch panel module, antenna mounts,
JUSTIFICATION: The Standard Integrated Command Pos protected platform for the ABCS which is a major part of the to support the fielding of the noted ABCS nodes with the A	he Army Chi	ief of Staff's e	effort to digitize the battlefi	ield. Procurement of each of the above variants is required

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	ROCUREM	ENT/2/			m Nomenclature: ARD INTEGRATE SYSTEM (BZ99			Weapon System	Туре:	Date: Feb	ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Tent Command Post	А				1540	308	5	952	183	5	1065	201	!
PM/Administration Engineering Support		10 50			10 50			10 51			10 51		
SUBTOTAL		60			1600			1013			1126		
Rigid Wall Shelter	А	10875	75	145									
PM/Administration Engineering Support Interim Contractor Support		380 1300 1100			355 350 1085			330 355 445			340 380 425		
SUBTOTAL		13655			1790			1130			1145		
M1068 Conversion Kit	А	7500	60	125	20305	155	131	21600	160	135	19180	137	140
PM/Administration Engineering Support		1490 2300			450 275			440 270			466 286		
SUBTOTAL		11290			21030			22310			19932		
5-Ton E-Van Installation Kit	А	3300	22	150				2400	15	160	5775	35	165
PM/Administration Engineering Support Interim Contractor Support		490 600 800			250 300 1040			245 285 340			266 300 430		
SUBTOTAL		5190			1590			3270			6771		
Soft Top HHMMWV Installation Kit	А							2132	41	52	4860	90	54
PM/Administration Engineering Support Interim Contractor Support		370 900 1093			300 220 167			290 200 355			310 220 432		
SUBTOTAL		2363			687			2977			5822		
TOTAL		32558			26697			30700			34796		

								Date:		
	Exhibit P-5a, Budget Procurement	t History a	nd Planning						Febru	ary 1999
Appropriation / Budget Activity/Serial No:		Weapon Syst	em Type:		P-1 Line Item	Nomenclature) :			
OTHER PROCUREMENT / 2 / Communications and I	Electronics				STA	ANDARD INTE	GRATED CMD PC	ST SYST	EM (BZ996	62)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issu Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Tent Command Post										
FY 99	Camel Manuf. Lafollette, Tenn.	C/Option			Aug-99	308	5	_		
FY 00	Camel Manuf. Lafollette, Tenn.	C/Option		Feb-00	Aug-00	183	5	YES		
FY 01	Camel Manuf. Lafollette, Tenn.	C/Option	ATCOM	Feb-01	Aug-01	201	5	YES		
Rigid Wall Shelter										
FY 98	Gichner Maunf. Dallastown, Pa.	C/Option	CECOM	Jul-98	Jan-00	75	145			
M1068 Conversion Kit										
FY 98	United Defense San Jose, Ca.	C/Option	TACOM	Jul-98	Apr-99	60	125			
FY 99	United Defense San Jose, Ca.	C/Option	TACOM	Nov-98		155	131	YES		
FY 00	United Defense San Jose, Ca.	C/Option	TACOM	Nov-99		160	135	YES		
FY 01	United Defense San Jose, Ca.	C/Option	TACOM	Nov-00	Aug-01	137	140	YES		
5-Ton E-Van Installation Kit										
FY 98	Tobyhanna Army Depot	MIPR	CECOM	Jul-98	May-99	22	150			
FY 00	Tobyhanna Army Depot	MIPR	CECOM	Jan-00	Nov-00	15	160	YES		
FY 01	Tobyhanna Army Depot	MIPR	CECOM	Jan-01	Nov-01	35	165	YES		
Soft Top HHMMWV Installation Kit										
FY 00	Tobyhanna Army Depot	MIPR	CECOM	Jan-00	Oct-00	41	52	YES		
FY 01	Tobyhanna Army Depot	MIPR	CECOM	Jan-01	Oct-01	90	54	YES		

							P-1	Item I	Nome	enclat	ture:												Date	e:							
FY 00 / 01 BUDGET PRO	DUC	TION SC	HED	ULE					ST	TANDA	ARD IN	ITEGF	RATE	O CMD	POS	T SYS	STEM (BZ99	62)									F	eb 99		
				PROC	ACCEP.	BAL					Fis	cal `											Fi		Yea						L
	М		S	QTY	PRIOR	DUE								Cale	enda	r Yea	ar 98							С	alen	dar	Year	99			Α
	F	FY	Е	Each	TO	AS OF	0	N	D	J	F	М	Α	М	J	J	Α	S	0	N	D	J	F	М		М	J	J	Α	S	Т
COST ELEMENTS	R		R V		1 OCT	1 OCT	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	C T	0 V	E C	A N	E B	A R	P R	A Y	U N	U L	U G	E P	E R
Tent Command Post																								T	т	Т					
	1	FY 99	Α	308	0	308																	Α		1		1		100	100	108
	1	FY 00	A	183	0	183																			1	1					183
	1	FY 01	A	201	0	201																		+			\vdash				201
	╅	1101	- / \	201	Ů	201													H			_	╁	╁	╁	╁	╁	┢			201
Rigid Wall Shelter	+																						+	+	╂		+				
Rigid Wall Sheller	2	FY 98	Α	75	0	75						\vdash				Α	\vdash						\vdash	╁	┢	-	-				
		F1 90	A	75	U	75	-			-			H			А			H			┢	+	╁	╂	-	+	┢			75
M1069 Conversion Vit	-											Н					Н						₩	+	┢	\vdash	+		\vdash		
M1068 Conversion Kit		EV 00		00	_	00						\vdash					\vdash					_	\vdash	+	-		\vdash	_			
	3	FY 98	A	60	0	60						Ш				Α	Ш						╀	+	30	30					
	3	FY 99	Α	155	0	155	_			_		Ш					Ш		_	Α		_	-	-	-	₩	-	_	30	30	95
	3	FY 00	Α	160	0	160																_	-	_	_			_			160
	3	FY 01	Α	137	0	137	_			_														-	╄						137
5 Tan 5 Man Installation 1/2	+									_															┢						
5-Ton E-Van Installation Kit		EV 00	_				_			_												_	-	╀	╀		-				
	4	FY 98	Α	22	0	22	_			_		Ш				Α			_			_	_	_	_	22	_	_			
	4	FY 00	Α	15	0	15						Ш										_	_	_							15
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		Exhibit P-4	l0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:					
OTHER P	PROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				ARMY TRAINI	NG XX1 MODERNIZ	ATION (BE4169)		
Program Elements for Code B It	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty											,	
Gross Cost	0.0	0.0	20.4	32.5	15.4	38.4	43.4	9.6	15.7	25.7	0.0	201.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	0.0	20.4	32.5	15.4	38.4	43.4	9.6	15.7	25.7	0.0	201.0
Initial Spares												
Total Proc Cost	0.0	0.0	20.4	32.5	15.4	38.4	43.4	9.6	15.7	25.7	0.0	201.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Army Training XXI Modernization uses information technologies to enhance the planning, preparation and execution of individual (Warrior XXI) and collective (Warfighter XXI) training. It will electronically link Army's master instructors/subject matter experts to soldiers anywhere in the world to improve performance and create a virtual classroom. Army Training XXI will evaluate evolving training technologies developed by industry/academia for deployment as they enter the commercial main stream. Army Training XXI Modernization will leverage existing and future national communications infrastructure. Infrastructure acquired will be based on industry standards and compliant with the Joint Technical Architecture (JTA) and Defense Information Infrastructure Common Operating Environment (DII COE), where applicable. This will help assure not only compatibility with other military services but also that commercial, state, and other resources can be leveraged to achieve cost effective solutions to support the Total Army. Specific initiatives include Total Army Distance Learning Program/Classroom XXI (TADLP/CR XXI), Army Doctrine and Training Digital Library (ADTDL), Automated Instructional Management System - Redesign (AIMS-R), and Army Systems Approach to Training (ASAT).

Warrior XXI - Warrior XXI initiatives include TADLP and CR XXI. This effort is critical to sustain soldier/unit proficiency. The Army is and will remain primarily CONUS-based with disbursed smaller units strategically placed worldwide. For the foreseeable future, the Army will perform a far larger array of missions than in the past. Meanwhile, personnel reductions will make it increasingly difficult to provide Mobile Training Teams and New Equipment Training Teams to meet training requirements. TADLP and CR XXI provide infrastructure to implement a cost effective solution to this problem, aiding Army to maintain acceptable outyear readiness levels despite massive resource reductions. TADLP/CR XXI supported training enhancements will help reduce the current backlog of over 90K soldiers that require MOS training. Army can significantly increase levels of MOS qualification, hence readiness, with standardized Total Army courseware delivered through Distance Learning (DL) technology. Aggressive implementation of the Total Army Distance Learning Plan (TADLP) will also help compensate for the impact on outyear training backlogs of the redesign of National Guard divisions and continuing decreases in overall Army resource levels. TADLP will reduce resident training

Exhibit P-40C Budget I	tem Justific	ation Sheet		Date February 1999
Appropriation / Budget Activity/Serial No.			P-1 Item Nomenclature	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				ARMY TRAINING XX1 MODERNIZATION (BE4169)
Program Elements for Code B Items	Code	Other Related Progra	am Elements	

requirements and soldiers will spend less time in the training base and more time in units, thereby increasing readiness. TADLP/CR XXI provide the infrastructure needed to achieve these goals. Without this investment, Army schools will be unable to export the expertise and standardization provided by master instructors and subject matter experts; the full benefits of Total Army courseware already updated or currently being updated will not be realized; soldiers will not be able to receive training where and when needed; and the problem of training backlog will be exacerbated.

TADLP/CR XXI infrastructure will deliver standardized training to Active Component (AC) and Reserve (RC) Component soldiers. TADLP provides infrastructure for soldiers to train at or near their assigned station, in lieu of resident training at Army schools. CR XXI provides infrastructure at sites colocated with Army schools. Operational implementation of TADLP/CR XXI infrastructure is carefully phased to coincide with development of updated Army courseware, taking into account the number of soldiers needing training, types of training needed, and where training is needed to maximize the return on the TADLP/CR XXI investment. Tasks supported include conducting training, receiving training, developing training, and storing digitized training materials.

The TADLP/CR XXI acquisition strategy will follow a multi-phase implementation approach to achieve these objectives. FY98/99 investments provided an interim capability. They supported and enhanced existing Army training capabilities based primarily on a synchronous training model to provide an immediate return on investment. Concurrently, Army teamed with industry and academia to develop an overarching functional and technical architecture to support the evolution of the Total Army Distance Learning Plan (TADLP) into the objective Army training model. This model is based on an optimized mix of synchronous and asynchronous learning techniques. Beginning in FY00, Army will begin acquiring TADLP/CR XXI infrastructure to both enhance capabilities provided in FY98/99 and to support development/acquisition of learning tools based on the objective Army training model. This investment leverages advances in information technology and learning theory to make training more available/affordable for the total force and improve overall readiness.

Warfighter XXI - Warfighter XXI initiatives include the Army Doctrine and Training Digital Library (ADTDL), the Automated Instructional Management System - Redesign (AIMS-R), and the Army Systems Approach to Training (ASAT). Warfighter XXI initiatives support TADLP/CR XXI through the Warfighter XXI Campaign Plan. The Warfighter XXI Campaign Plan provides a strategic vision and an integrated plan for how the future Army will train battle staff and collective tasks. Result will be an automated training management system designed to enhance the planning, resourcing, execution, and assessment of battle-focused training for the unit and unit commander. The ADTDL stores the data and provides unit and institutional commanders access to data necessary to plan, resource, execute, and assess training.

JUSTIFICATION: FY 00/01 funds allow acquisition of Warrior XXI (TADLP and CR XXI) and Warfighter XXI (ADTDL, AIMS-R and ASAT) infrastructure to augment and enhance existing Army training capabilities based on a synchronous training model and implement enhanced training capabilities based on asynchronous training methods. This will help maximize both the utility of the already installed training infrastructure and the return on future training infrastructure investments.

Exhibit P-5, Weapon		Appropriation/ Bu	-				m Nomenclature:			Weapon System	Type:	Date:	
OPA Cost Analysis		OTHER F Communications	PROCUREM			ARMY TI	RAINING XX1 MO	DERNIZATION				Feb	ruary 1999
ODA	ID	Communications	FY 98	onics Equipment		FY 99	(BE4169)		FY 00			FY 01	
OPA	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Cost Elements	CD	\$000	Each	\$000	\$000	Each	\$000	\$000	,	\$000	\$000	Each	\$000
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Eacn	\$000
Warrior XXI (TADLP and CR XXI)													
ATM Gateway (Router/Multiplexer)	А				253	3	84	6239	74	84	3024	36	84
16 Student Classrooms	A	12817	55	VAR	20710	-	VAR	1329	7	VAR	24232		VAI
(Data Process Servers, Desktop PCs,	, ,			*****	200			.020	•		_ :		• • • • • • • • • • • • • • • • • • • •
Audio/Video Equipment, Comm													
Audio/Video Equipment, Comm Infrastructure and Raised Floors)													
12 Student Classrooms	Α	1789	6	VAR	2981	10	VAR	1309	7	VAR	3580	10	VA
(Data/Process Servers, Desktop/Laptop PCs,			_			_							
Audio/Video Equipment, Comm													
Infrastructure and Raised Floors)													
20 Student Classrooms	Α	1838	7	VAR	3119	10	VAR	1672	7	VAR	2348	10	VAF
(Data/Process Servers, Desktop PCs,													
Audio/Video Equipment, Comm)													
Audio/Video Equipment, Comm) Infrastructure and Raised Floors)													
Digital Training Access Centers	Α	462	7	66	66	1	66	132	2	66	198	3	66
(Data/Process Servers, Desktop PCs,													
Printers and Comm Infrastructure)													
Warfighter XXI	Α	3455	VAR	VAR	5416	VAR	VAR	4680	VAR	VAR	4975	VAR	VAF
(Data/Video Servers, desktop PCs,													
Printers, Optical Scanners and Comm													
Infrastructure)													
VAR - Configurations vary by user require-													
ments and site													
TOTAL		00004			20545			45004			20257		
TOTAL		20361			32545			15361			38357		

								Date:		
Exhibit P-	5a, Budget Procureme	nt History ar	nd Planning						February 1	999
Appropriation / Budget Activity/Serial No:		Weapon Syster	m Type:		P-1 Line Item	Nomenclatur	e:			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment						ARMY TRAIN	IING XX1 MODERN	IIZATION	(BE4169)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Warrior XXI										
ATM Gateway (Router/Multiplexer)										
FY 99	VAR*	C/FP	CAC-W	Mar-99		3		YES		
FY 00	TBS	C/FP	CAC-W	Jan-00	Apr-00	74		YES		
FY 01	TBS	C/FP	CAC-W	Jan-01	Apr-01	36	84	YES		
16 Student Classrooms										
FY 98	VAR*	C/FP	CAC-W	Feb-98	May-98	55	VAR	YES		
FY 99	VAR*	C/FP	CAC-W	Mar-99	Jun-99	122	VAR	YES		
FY 00	TBS	C/FP	CAC-W	Jan-00	Apr-00	7	VAR	YES		
FY 01	TBS	C/FP	CAC-W	Jan-01	Apr-01	118	VAR	YES		
12 Student Classrooms										
FY 98	VAR*	C/FP	CAC-W	Feb-98	May-98	6	VAR	YES		
FY 99	VAR*	C/FP	CAC-W	Mar-99	Jun-99	10	VAR	YES		
FY 00	TBS	C/FP	CAC-W	Jan-00	Apr-00	7	VAR	YES		
FY 01	TBS	C/FP	CAC-W	Jan-01	Apr-01	10	VAR	YES		
20 Student Classrooms										
FY 98	VAR*	C/FP	CAC-W	Jan-98	Apr-98	7	VAR	YES		
FY 99	VAR*	C/FP	CAC-W	Mar-99	Jun-99	10	VAR	YES		
FY 00	TBS	C/FP	CAC-W	Jan-00	Apr-00	7		YES		
FY 01	TBS	C/FP	CAC-W	Jan-01	Apr-01	10	VAR	YES		
(con't)										

^{*} Warrior XXI Contractors are: Sprint, Herndon, VA (televideo equipment); The Portable Warehouse, Anaheim, CA; and Government Technology Services, Inc., Chantilly, VA, (PCs); Maxaccess, Summerville, SC and Flexspace Incorporated, Seattle, WA (system cabling)

^{**} Warfighter XXI Contractors are: Edgemark Systems, Silver Spring, MD (ADTDL infrastructure); Lockheed Martin, Springfield, VA and MCS, Arlington, VA (AIMS-R and ASAT infrastructure) CAC-W-CECOM Acquisition Center- Washington

VAR - Configurations vary by user requirements and site

Ext	nibit P-5a, Budget Procureme	nt History ar	nd Planning					Date:	February 1	999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electro Equipment	onics	Weapon Syster	n Type:		P-1 Line Item	Nomenclatur	e: NING XX1 MODERN	IIZATION	(BE4169)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issu Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Digital Training Access Centers										
FY 98	VAR*	C/FP	CAC-W		May-98	7	66	YES		
FY 99	VAR*	C/FP	CAC-W	Mar-99		1	66			
FY 00	TBS	C/FP	CAC-W	Jan-00	Apr-00	2	66	YES		
FY 01	TBS	C/FP	CAC-W	Jan-01	Apr-01	3	66	YES		
Warfighter XXI										
FY 98	VAR**	C/FP	TRADOC	Feb-98	May-98	VAR	VAR	YES		
FY 99	TBS	C/FP	TRADOC	Mar-99	Jun-99	VAR	VAR	YES		
FY 00	TBS	C/FP	TRADOC	Jan-00	Apr-00	VAR	VAR	YES		
FY 01	TBS	C/FP	TRADOC	Jan-01	Apr-01	VAR	VAR	YES		

^{*} Warrior XXI Contractors are: Sprint, Herndon, VA (televideo equipment); The Portable Warehouse, Anaheim, CA; and Government Technology Services, Inc., Chantilly, VA, (PCs); Maxaccess, Summerville, SC and Flexspace Incorporated, Seattle, WA (system cabling)

^{**} Warfighter XXI Contractors are: Edgemark Systems, Silver Spring, MD (ADTDL infrastructure); Lockheed Martin, Springfield, VA and MCS, Arlington, VA (AIMS-R and ASAT infrastructure) CAC-W-CECOM Acquisition Center- Washington

VAR - Configurations vary by user requirements and site

		Exhibit P-4	10, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/Se	erial No:					P-1 Item Nomencla	ure:					
OTHER PR	ROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				AUTOMATED D	ATA PROCESSING	EQUIP (BD3000)		
Program Elements for Code B Ite	ems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	1761.1	138.8	139.2	123.4	138.6	191.6	184.6	227.4	154.0	142.2	0.0	3200.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	1761.1	138.8	139.2	123.4	138.6	191.6	184.6	227.4	154.0	142.2	0.0	3200.9
Initial Spares												
Total Proc Cost	1761.1	138.8	139.2	123.4	138.6	191.6	184.6	227.4	154.0	142.2	0.0	3200.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This budget line supports the Army's sustaining base automation systems. The Army's primary sustaining base information management (IM) goal is to provide information services for the sustainment and readiness of the forces at minimum cost.

JUSTIFICATION: The current sustaining base automation infrastructure is largely overstressed and reaching technological obsolescence. A stable modernization program is essential to maintain efficiency, increase productivity, and reduce operation and maintenance costs through technological advancement. As the Army modernizes its warfighting forces for the twenty-first century, it must leverage the use of automation technology to streamline and modernize its management information systems to support C4I for the Warrior and power projection strategies, split base operations, and downsized force structures. The effectiveness of the CONUS split base operations strategy to perform as the rear area for deployed forces as well as the mobilization, force projection, and redeployment platform is increasingly dependent upon use of state-of-the-art automation technology to provide responsive combat service support to the warfighter in the areas of command and control, logistics, personnel, finance, transportation, medical and other sustaining base functions.

Exhibit P-5, Weapon		Appropriation/ Bu					m Nomenclature:			Weapon System	Type:	Date:	4000
OPA Cost Analysis		Communications	ROCUREN			AUTOMA	TED DATA PROC (BD3000)	ESSING EQUIP				Febi	uary 1999
OBA	ID	Communications		omeo Equipment		FY 99	(BD3000)	1	FY 00			FY 01	
		TotalCost		UnitCost	TotalCost		UnitCost	TotalCost		UnitCost	TotalCost		UnitCost
Oost Liements	OD		,			,			_				
OPTICAL DIGITAL EQUIP RESERVE HQ AUTOMATION SUSTAINING BASE INFO SVC (SBIS) STRATEGIC LOGISTICS PROGRAM (SLP) HQ MANAGEMENT INFORMATION SYSTEMS JOINT COMPUTR AIDED ACQ & LOG SPT ADPE FOR NON TAC MGMT INFO SYS MACOM AUTOMATION SYSTEMS LOGISTICS AUTOMATION SYSTEMS PERSONNEL AUTOMATION SYSTEMS HIGH PERFORMANCE COMPUTING		TotalCost \$000 5362 771 6923 21411 3463 34478 219 24910 5834 35465 399	Each Each	UnitCost \$000	TotalCost \$OOO 2864 790 33099 5678 26963 254 30633 2970 19701 418	Each Each	UnitCost \$000	TotalCost \$000 4163 1584 21931 5512 32347 38894 8214 25522 440	PY 00 Qty Each	UnitCost \$000	TotalCost \$OOO 3653 1615 19932 5528 39750 83322 7525 29821 434		UnitCost \$000
TOTAL		139235			123370			138607			191580		

								Date:					
		Exhibit P-4	0, Budget	ltem Justific	cation Sheet					February 1999			
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ture:	=					
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				OPTICA	AL DIGITAL EQUIP (BD3956)			
Program Elements for Code B It	tems:			Code:	Other Related Progr	ram Elements:							
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001 FY 2002 FY 2003 FY 2004 FY 2005 To Complete T							
Proc Qty													
Gross Cost	31.5	1.3	5.4	2.9	4.2	3.7	2.8	3.6	3.5	3.5	0.0	62.5	
Less PY Adv Proc													
Plus CY Adv Proc													
Net Proc (P-1)	31.5	1.3	5.4	2.9	4.2	3.7	2.8	3.6	3.5	3.5	0.0	62.5	
Initial Spares													
Total Proc Cost	31.5	1.3	5.4	2.9	4.2	3.7	2.8	3.6	3.5	3.5	0.0	62.5	
Flyaway U/C													
Wpn Sys Proc U/C													

DESCRIPTION: This supports high payoff initiatives to replace obsolete, inefficient records management systems with state-of-the-art optical digital equipment and other electronic recordkeeping systems. This technology will reduce operations and maintenance costs and improve the mission effectiveness and productivity of records managers throughout the Army.

PERSONNEL ELECTRONIC RECORD MANAGEMENT SYSTEMS (PERMS): PERMS provides an electronic system for the maintenance of military personnel files at headquarters level Army Personnel Records Management Centers for Active Army, Army National Guard, and Army Reserve. PERMS will continue to convert current paper and microfiche personnel files to digital images. PERMS will allow for selective retrieval of individual files, groups of files or individual documents within these files. Retrieval selections can be individually tailored to the needs of the soldier, their personnel managers and selection/promotion boards.

DOCUMENT IMAGING PROCESSING SYSTEMS: This ensures Army compliance with Code of Federal Regulations (CFR) 36 and 41 for economy and efficiency in documenting Army business. Use of current and emerging technology reduces operations and maintenance costs and improves mission effectiveness and availability of records throughout the Army.

JUSTIFICATION:

PERSONNEL ELECTRONIC RECORD MANAGEMENT SYSTEMS (PERMS): FY00/01 funds support reengineering and upgrade of PERMS hardware, remote access and Year 2000 upgrades.

DOCUMENT IMAGING PROCESSING SYSTEMS: FY00/01 funds procure hardware and software required for integration of document imaging and related recordkeeping technology solutions supporting Army-wide management of records. These funds will maximize the benefits achieved through selective integration of technology into the recordkeeping process.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ But OTHER F Communications	ROCUREM	ENT/2/			m Nomenclature: AL DIGITAL EQU			Weapon System	Туре:	Date: Feb	uary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
COSt Liements	- 05	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Document Imaging Processing System	А	803	VAR	VAR	843	VAR	VAR	872	VAR	VAR	862	VAR	VAF
Personnel Electronic Record Management Systems (PERMS)	A	4559	VAR	VAR	2021	VAR	VAR	3291	VAR	VAR	2791	VAR	VAF
TOTAL		5362			2864			4163			3653		

Exhibit	P-5a, Budget Procurement	History a	and Planning					Date:	February	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics	, <u> </u>	Weapon Syst			P-1 Line Item	Nomenclature			.,	
Equipment		0	•			OPTIO	CAL DIGITAL EQUI	•	,	DED I
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Document Imaging Processing System FY 98 FY 99 FY 00	AINS TBS TBS	C/FP C/FP C/FP	FEDSIM FEDSIM FEDSIM	Dec-97 Feb-99 Dec-99	Mar-99	VAR VAR VAR	VAR		NO NO NO	
FY 01 Personnel Electronic Record Management Systems (PERMS)	TBS	C/FP	FEDSIM	Dec-00	Jan-01	VAR	VAR	YES	NO	
FY 98 FY 99 FY 00 FY 01	PRC TBS TBS TBS	C/FP C/FP C/FP C/FP	FEDSIM FEDSIM TBS TBS	Jan-98 Feb-99 Dec-99 Dec-00	Mar-99 Mar-00	VAR VAR VAR VAR	VAR VAR	YES YES	NO NO NO NO	

AINS - Advanced Information Network Systems, Inc., Rockville, MD

FEDSIM - Federal Systems Integration Management Center, Falls Church, VA PRC - Planning Research Corp., McLean, VA

VAR - Unit costs and quantities vary by configuration.

·						<u> </u>		Date:	<u> </u>	<u> </u>		
		Exhibit P-4	0, Budget	ltem Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:	=				
OTHER P	PROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				STRATEGIC LO	GISTICS PROGRA	M (SLP) (BD7000)		
Program Elements for Code B I	tems:			Code:	Other Related Progr	ram Elements:						
			Γ			T	T	1	1		1	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	65.8	20.3	21.4	33.1	21.9	19.9	20.5	20.9	21.3	21.9	0.0	267.0
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	65.8	20.3	21.4	33.1	21.9	19.9	20.5	20.9	21.3	21.9	0.0	267.0
Initial Spares												
Total Proc Cost	65.8	20.3	21.4	33.1	21.9	19.9	20.5	20.9	21.3	21.9	0.0	267.0
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Budget line supports the Total Distribution Program (TDP), an initiative originally put in place by the Vice Chief of Staff, Army (VCSA) to correct deficiencies in the distribution of materiel, equipment, personnel replacements, and mail, which occurred during Operation Desert Shield/Storm. The program is being refocused, at the direction of the TDP General Officer Steering Committee (GOSC), to execute the Distribution Based Logistics System (DBLS) of the future, supporting the Revolution in Military Logistics (RML). The transformation of Army logistics into a distribution-based system relies on distribution velocity rather than redundant mass to provide support to the warfighter. The refocused program is envisioned to integrate all logistics plans, programs, and issues which support the Force Sustainment Domain of the RML. The refocusing effort will combine those still relevant lessons learned during Desert Shield/Storm with emerging issues and projects necessary to achieve the envisioned end state of a DBLS. The purpose of the TDP initiative is to develop an effective distribution pipeline with Total Asset Visibility (TAV) from initial shipping point to destination. Critical corrective actions include development and fielding of communications capability for logistics, the use of emerging technologies to enhance visibility and material accountability, upgrade of critical distribution management systems, fielding and maintenance of the required distribution infrastructure, as well as doctrinal changes in distribution management. The TDP supports "Improving Logistics Support in Combat Zones", The Army Strategic Logistics Plan and The DoD Logistics Strategic Plan.

JUSTIFICATION: FY 00/01 funding develops communications capability for transmission of logistics information both within a theater of operations and between the theater and the sustaining base. Work is underway to interface the Tactical Packet Network (TPN), operating in the tactical environment, with the communications architecture of sustaining base systems, enabling the warfighter to pass data directly to the sustaining base. During the Gulf War, lack of such communications capability was a critical deficiency, which hampered the distribution process. In addition, the volume of materiel moving through the logistics pipeline exceeds the ability to manually track materiel, maintain accurate records and provide timely information to decision makers. Funding supports procurement of Automatic Identification Technology (AIT) such as Radio Frequency (RF) Tags to provide source data automation. RF technology provides rapid and accurate capture, retrieval and transmission of supply/transportation information for container/pallet contents, providing "inside-the-box" visibility of container contents and a means to track critical materiel throughout the distribution pipeline.

Exhibit P-5, Weapon		Appropriation/ Bud	dget Activity	/Serial No:		P-1 Line Ite	em Nomenclature:			Weapon System	Type:	Date:	
OPA Cost Analysis		OTHER P	ROCUREM	ENT/2/			GIC LOGISTICS P				••		ruary 1999
•		Communications		onics Equipment			(BD7000)						
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Packet Switch Upgrade/AN TTC 39A to 39E EEE Program	Α	9200	5*	VAR	1000	VAR	VAR	900	VAR	VAR	900	VAR	VAR
CSS Automation Integration Comm Hardware & Software	Α	4244	120*	VAR	6000	VAR	VAR	5855	VAR	VAR	5892	VAR	VAR
Automation ID Technology RF Tags/Interrogators/RF Links/Retrievers Warfighter Rapid Acquisition Program (WRAP) RFTAGS	Α	6767	VAR	VAR	26099	VAR	VAR	15176	VAR	VAR	13140	VAR	VAR
RF Tags	A	1200	VAR	VAR									
TOTAL		21411			33099			21931			19932		

Evhibit	P-5a, Budget Procurement	History a	and Planning					Date:	February 1	1000
Appropriation / Budget Activity/Serial No:	r-Ja, Buuget Frocurement	Weapon Syst			P-1 Line Item	Nomenclatur	0.		rebluary	1999
OTHER PROCUREMENT / 2 / Communications and Electronics		Weapon Cyst	от туро.				OGISTICS PROGR	AM (SLD)	(BD7000)	
<u> </u>	T	Contract	•	1				Specs	Date	RFP Issue
WBS Cost Elements:	Contractor and Location	Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Avail	Revsn	Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Packet Switch Upgrade/Single Shelter Switch										
FY 98	GTE	C/FP	CECOM	Dec-97	Feb-98	5	VAR*	YES	NO	
FY 99	TBS	C/FP	СЕСОМ	Apr-99	Jul-99	VAR	VAR*	YES	NO	
FY 00	TBS	C/FP	СЕСОМ	Dec-99	Feb-00	VAR	VAR*	YES	NO	
FY 01	TBS	C/FP	CECOM	Dec-00	Feb-01	VAR	VAR*	YES	NO	
CSS Automation Integration										
Comm Hardware & Software										
FY 98	VAR***	C/FP	СЕСОМ	May-98	Jul-98	120	VAR*	YES	NO	
FY 99	TBS	C/FP	СЕСОМ	May-99	Jul-99	124	VAR*	YES	NO	
FY 00	TBS	C/FP	СЕСОМ	May-00	Jul-00	VAR	VAR*	YES	NO	
FY 01	TBS	C/FP	СЕСОМ	May-01	Jul-01	VAR	VAR*	YES	NO	
Automation ID Technology										
RF Tags/Interrogators/RF Links/Retrievers										
FY 98	SAVI Technology	C/FP	CECOM	Mar-98	Apr-98	VAR	VAR*	YES	NO	
FY 99	TBS	C/FP	CECOM	Mar-99		VAR	VAR*	YES	NO	
FY 00	TBS	C/FP	СЕСОМ	Mar-00	Apr-00	VAR	VAR*	YES	NO	
FY 01	TBS	C/FP	CECOM	Mar-01	Apr-01	VAR	VAR*	YES	NO	
RF Tags										
Hardware and Associated Software										
FY 98	SAVI Technology	C/FP	PEO STAMIS	VAR**	VAR**	VAR	VAR*	YES		

CECOM-Communications and Electronics Command, Ft Monmouth, NJ

PEO-STAMIS- Program Executive Office-Standard Army Management Information Systems, Ft Belvoir, VA

VAR - Quantities vary by configuration.

VAR* - Unit cost vary with location. Contracts vary depending on components purchased.

VAR** - Multiple contracts awarded/delivered throughout the year.

VAR*** - Sysorex Inc., Fairfax, VA/Motorola, Tempe, AZ/GTSI, Chantilly, VA

SAVI Technology, Mountain View, CA GTE, Taunton, MA

		Exhibit P-4	I0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	=				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t				RESERV	E HQ AUTOMATION	l (BE4000)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	Total Prog	
Proc Qty												
Gross Cost	14.0	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.7	1.7	26.3	
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	14.0	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.7	1.7	0.0	26.3
Initial Spares												
Total Proc Cost	14.0	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.7	1.7	0.0	26.3
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: US ARMY RESERVE (USAR) INFORMATION MANAGEMENT MASTER PLAN (USAR IMMP): The USAR IMMP provides automation support for U.S. Army Reserve Personnel Command (AR-PERSCOM) mission by providing the highest quality life cycle personnel management and services resulting in a trained and ready force in support of the National Military Strategy. AR-PERSCOM commands and controls the Active Guard Reserve (AGR), Individual Mobilization Augmentee (IMA) and Individual Ready Reserve (IRR) soldiers; manages USAR Selected Reserve end strength; develops and sustains USAR personnel through officer and enlisted professional development education, Military Occupational Specialty (MOS) qualification, evaluations, and promotions; supports Commander-in-Chief (CINC)/Major Command (MACOM) requirements for exercises, site/mission support, intelligence and counterdrug demand reduction; and manages Reservists retirement transition, retirement pay processing, and veterans affairs. The Total Army Personnel Data Base (TAPDB) Reserve is the "Top-Of-The-System" central repository of Reserve Personnel data in support of the Army's Personnel Enterprise System. AR-PERCOM is responsible for providing the data necessary for the implementation of the Reserve Component Automation System (RCAS), developing interim interface systems that support phased fielding of RCAS, and developing end-state interfaces between TAPDB -Reserve and RCAS.

JUSTIFICATION: FY00/01 funds buy hardware and software to support improved economies and efficiencies in USAR Personnel Management. Increased automation support is vital to achieve mandated civilian personnel reductions of 35% since FY 93, increase overall productivity, and provide a trained and deployable force in support of the National Military Strategy. Program funding will be key in meeting this goal, and continuing the migration and reengineering of Reserve business processes to a client server environment. This migration includes the integration of imaging (Personnel Electronic Records Management System (PERMS) imaging into other Reserve business processing using Application Program Interfaces (API), in support of personnel and mobilization systems critical to warfighting, accountability, interoperability and veterans.

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREM and Electro			RESER	em Nomenclature: VE HQ AUTOMAT	TION (BE4000)		Weapon System	Туре:		ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
	\blacksquare	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
US Army Reserve Information Management Master Plan (USARIMMP) Servers, LANs, Software, Storage Devices	Α	771	1	771	790	1	790	1584	1	1584	1615	1	1615
TOTAL		771			790			1584			1615		

Exhil	oit P-5a, Budget Procureme	nt History a	and Planning					Date:	February	1999
Appropriation / Budget Activity/Serial No:		Weapon Sys			P-1 Line Item	Nomenclatur	re:			
OTHER PROCUREMENT / 2 / Communications and Electronic	cs					RESER	RVE HQ AUTOMAT	ION (BE40	000)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
US Army Reserve Information Management Master Plan (USARIMMP) Servers, LANs, Software, Storage Devices										
FY 98	VAR	C/FP	GSA	Feb-98	Mar-98	1	771	YES	NO	
FY 99	TBS	C/FP	GSA	Feb-99		1	790		NO	
FY 00 FY 01	TBS TBS	C/FP C/FP	GSA GSA	Mar-00 Feb-01	Apr-00 Mar-01	1	1584 1615		NO NO	

GSA - General Services Administration, Heartland Region, Kansas City, MO

VAR - International Business Machine (IBM) Corp, Dallas TX and Cabletron Systems, Rochester, NH

	-	Exhibit P-4	40, Budget	Item Justifi	ication Sheet			Date:	-	February 1999	-	
Appropriation / Budget Activity/S	erial No:		-			P-1 Item Nomenclat	ture:					-
OTHER P	PROCUREMENT / 2 / Com	nmunications and El	lectronics Equipmer	nt				ADPE FOR NO	ON TAC MGMT INFO	O SYS (BE4150)		
Program Elements for Code B It	ems:			Code:	Other Related Progr	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty		i										
Gross Cost	330.6	0.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.3
Less PY Adv Proc		<u></u>										
Plus CY Adv Proc		i										<u> </u>
Net Proc (P-1)	330.6	0.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.3
Initial Spares		i										
Total Proc Cost	330.6	0.2	0.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	331.3
Flyaway U/C				T	$T_{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline{\underline$						T	 I
Wpn Sys Proc U/C												
Wpn Sys Proc U/C DESCRIPTION: This be information that is vital to	•		•		• •	,	•	•	(INSCOM). The	∋ SMSMFAC Ial	boratory develops	signa

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREM	IENT / 2 /			m Nomenclature: OR NON TAC MG			Weapon System	Type:	Date: Feb	ruary 1999
		Communications		onics Equipment			(BE4150)						
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Scaled Model Signature Measurement Facility (SMSMFAC)	А	219	1	219	254	1	254						
TOTAL		219			254								

	hibit P-5a, Budget Procuremer	nt History o	and Planning					Date:	February 1	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electr		Weapon Syst			P-1 Line Item	Nomenclatur	e: NON TAC MGMT IN			1999
VBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date		QTY	Unit Cost	Specs Avail	Date Revsn	RFP Iss Date
iscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Scaled Model Signature Measurement Facility (SMSMFAC)										
=Y 98 =Y 99	University of MA University of MA	Option Option	INSCOM INSCOM	Dec-97 Jan-99	Jan-98 Feb-99	1	219 254	YES YES	NO NO	
REMARKS: University of MA, Lowell Research Option - Already negotiated INSCOM - Intelligence Security C										

	<u> </u>		<u> </u>			<u> </u>	<u> </u>	Date:	<u> </u>	<u> </u>		
		Exhibit P-4	0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:					
OTHER F	PROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t				HIGH PERFO	RMANCE COMPUT	ING (BE4152)		
Program Elements for Code B I	tems:			Code:	Other Related Progr	am Elements:						
			1			1			1	•	,	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	90.7	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.0	94.8
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	90.7	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.0	94.8
Initial Spares												
Total Proc Cost	90.7	0.4	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.0	94.8
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This program satisfies critical needs for advanced computational technology for Army scientists, engineers and analysts, and represents the leading edge of high speed processing. This capability is not available through other technology and is designed to solve problems which cannot be resolved in other ways. The program provides for access to supercomputing resources consisting of networked Supercomputers at various CONUS locations. Supercomputer systems are required to satisfy critical research and development missions in combat and materiel development programs. Significant advances in supercomputer technology have provided increases in both speed and memory. This is essential for performing fully time-dependent, three-dimensional computations and simulations directed at major new weapon designs or battlefield management. The resultant use of this advanced high-performance computing technology is the generation of very large data sets. In order to effectively and efficiently process this data, robotic mass storage systems are required. Examples of the major Army applications best suited to supercomputer technology include battlefield management, modeling/simulation, weapons systems design, terrain analysis, mechanical design (structural and dynamic vehicles), nuclear survivability, and material dynamics and composition. Supercomputers are contributing to efforts for high leverage, high payoff programs which exploit technological advances, reduce logistics burdens, lower acquisition and operation and maintenance costs, and provide required lethality at reduced weight and volume.

JUSTIFICATION: FY 00-01 funds provide local site and Army specific automation infrastructure in order to allow for the effective use of the Army Research Lab (ARL), which is one of four DoD Major Shared Resource Centers (MSRCs). Funding will procure mass storage, work stations, and network connectivity for Army users of the ARL MSRC and its associated Distributed Centers. The DoD High Performance Computing Modernization Program (HPCMP) is currently spending over \$200M on the Centers but is not providing any funding for service specific infrastructure. Funds will leverage these assets being procured through the DoD HPCMP and capitalize on leading edge technology in multi-terabyte mass storage systems.

Exhibit P-5, Weapon OPA Cost Analysis			ROCUREN				m Nomenclature: PERFORMANCE ((BE4152)			Weapon System	Туре:	Date: Feb	ruary 1999
OPA	ID		FY 98	1.1		FY 99	(DL+132)		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Mass Storage Upgrade Input/Output Technology	А	399	VAR	VAR									
Mass Storage Upgrade Network Connectivity Workstations	A				418	VAR	VAR	440	VAR	VAR	434	VAR	VAF
TOTAL		399			418			440			434		

								Date:		
	nibit P-5a, Budget Procureme								February ⁻	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communications and Electronic Procurement / 2 / Communication / 2 / Communi	onics	Weapon Syst	em Type:		P-1 Line Item	Nomenclatur				
Equipment		0 1 1	T			HIGH PERI	FORMANCE COMP			252
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Mass Storage Upgrade Input/Output Technology										
FY 98	VAR*	C/FP	ARL	Feb-98	Mar-98	VAR	VAR	YES	NO	
Mass Storage Upgrade Network Connectivity										
FY 99	TBS		Acquisition Center-APG		Mar-99	VAR			NO	
FY 00 FY 01	TBS TBS		Acquisition Center-APG Acquisition Center-APG	Feb-00 Feb-01	Mar-00 Mar-01	VAR VAR		NO NO	NO NO	

VAR - Unit cost and quantities vary by configuration

VAR*-Fed Data Corp, Bethesda,MD; Edgemark Sys, Silver Spring,MD; Fore Systems, Vienna, VA ARL - Army Research Laboratory, Aberdeen Proving Grounds, MD

APG - Aberdeen Proving Grounds, MD

								Date:				
		Exhibit P-4	I0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	!				
OTHER P	PROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	nt				HQ MANAGEMEN	NT INFORMATION S	YSTEMS (BE4161)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
	<u> </u>		ı				ı		T	ı	1	
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	113.5	5.1	3.5	5.7	5.5	5.5	5.7	5.8	5.2	5.3	0.0	160.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	113.5	5.1	3.5	5.7	5.5	5.5	5.7	5.8	5.2	5.3	0.0	160.7
Initial Spares												
Total Proc Cost	113.5	5.1	3.5	5.7	5.5	5.5	5.7	5.8	5.2	5.3	0.0	160.7
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: Provides funds for information systems that support Army headquarters worldwide. These systems are also included in The Army Modernization Plan.

JUSTIFICATION:

HEADQUARTERS, DEPARTMENT OF THE ARMY (HQDA) AUTOMATIC DATA PROCESSING EQUIPMENT (ADPE): Provides for information management support to Headquarters, Department of the Army (HQDA), across the entire Information Management (IM) spectrum. HQDA ADPE supports the joint Office of the Secretary of the Army/Army Staff (OSA/ARSTAF) Senior Planning Group and other DoD Information Technology (IT) initiatives. FY 00/01 funds purchase hardware and software to expand and upgrade the HQDA Tracking System. This provides a flexible, integrated, automated system to support the control and management of Executive correspondence, internal actions, and file documentation. Further, it will streamline the flow process of actions within HQDA, reduce the amount of data re-entry and duplication of information, promote data sharing, and provide immediate access to information. FY 00/01 funds will also purchase hardware and software for the Concepts Analysis Agency (CAA) ADP Modernization project. This will enable the Army's principal theater-level study agency to perform quick reaction analysis for the Army Staff and Major Commands (MACOMS). Decisions based on CAA analyses impact force structure and modernization, logisitics, personnel, finance, and every functional area of the Army. FY 00/01 funds also purchase hardware and software for the Defense Message Service (DMS) for individual users on the HQDA staff. The DMS program was established by the Under Secretary of Defense (Acquisition) to facilitate and coordinate development of an integrated common-user message system within DoD. The primary goal of DMS is to provide a message system that satisfies writer-to-reader requirements to reduce cost and staffing levels; secondary goals include improvement of functionality, security, survivability, and availability.

Exhibit P-40C Budget It	tem Justific	ation Sheet		Date February 1999
Appropriation / Budget Activity/Serial No.			P-1 Item Nomenclature	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)
Program Elements for Code B Items	Code	Other Related Progr	am Elements	

(continued)

ARMY MODEL IMPROVEMENT PROGRAM (AMIP): AMIP is designed to improve the Army's analytic capability by providing a consistent basis to support decision making affecting force structure, doctrine, and procurement. AMIP directly supports Principle 10, Exploit Modeling and Simulations, of the Army Enterprise Strategy. By using state-of-the-art hardware and new software technology, AMIP will develop an integrated family of computerized combined arms combat models with supporting data bases. These models will support studies, research, and training. Component models will be interfaced and tested for validity and consistency of representations and results. The FY00/01 funds procure state-of-the-art computer simuation and graphics equipment/software. The equipment will be used by numerous analysis agencies, MACOMs, and national laboratories to develop more efficient, cost effective, realistic scenarios and real-time simulations of complex combat and associated processes for analysis of data. The achievement of these goals will provide readily understood, valid, and more responsive input into the decision making process affecting weapons procurement, force development, force deployment, tactics, sustainment, and enhance the overall warfighting capability of the Army. The funds will also provide for the upgrading of existing simulations/support equipment and software.

HOUSING OPERATIONS MANAGEMENT SYSTEM (HOMES): HOMES is a standard management system designed to provide efficient processing of soldiers' housing needs. It consists of four subsystems: Family Housing Subsystem (FHS) consisting of: (1) Assignments and Terminations (A&T) that supports the management of Government controlled housing; (2) Community Homefinding Relocation Referral Services (CHRRS) for help in locating off-post housing; Billeting (BIL) supports transient billets, Fisher houses, guesthouses, BOQs & SBEQs; Furnishings Management (FURN) that supports controlling and managing the furnishings inventory; and System Administration (SA) that provides a menu driven capability for administering the hardware for the above systems. HOMES increases availability of housing services, housing utilization, housing inventory control and the control of Basic Allowance for Quarters (BAQ). It also supports upward reporting needs and the elimination of the housing questionnaire survey process. The four subsystems are fully deployed worldwide. HOMES has been identified as a critical element of the Army Family Housing Action Plan to improve the level of housing services to soldiers and families. The system operates on INTEL 310/320's, AT&T 3B2, 486 and Pentium workstations, and HP9000 minicomputers, located in the local housing and billeting offices. FY 00/01 funds purchase replacement equipment for the FHS/FURN/SA subsystems. The equipment included will be computers, printers, high speed batch printers, and communications equipment. HOMES is a centrally managed system, where all software is developed and all equipment is identified, tested and approved centrally. Since initial fielding of HOMES, Army installation Housing Offices have become dependent on the system to fulfill their mission--management of Army housing inventory and its military occupants. The current reassignment of Army units and concomitant relocation of personnel is too large an activity to be managed without an automated information system. An equipment

STRATEGIC C2 FACILITIES: Provides funds for the Army Operations Center (AOC) and the Command and Control Support Agency. Funding is necessary to maintain state-of-the-art information management capability for the Army Staff, DoD Domestic Support (DOMS) activities and senior leadership of the Army and to obtain a completely integrated multi-level secure system with full connectivity to DoD's Global Command and Control System (GCCS) as well as connectivity to Federal and local government activities engaged in Disaster support operations. The system currently includes the HQDA GCCS/GCCS-A server suite of equipment; extensive COTS, and contractor developed support software; a variety of workstations connected to two separate Local Area Networks (LAN) with over 250 users; an Automated Message Handling System (AMHS); a Credential Access System (CAS); and a Briefing Display and Support System (BDS), and application tools to manage Army readiness, mobilization, and deployment data. A fully integrated desktop with user friendly tools and access to most Army and DoD databases is a key AOC goal. The system supports every military operation involving the Army and every Disaster relief operation engaged in by DoD. It allows the Senior Army leadership and Army/DoD officers to quickly access, manipulate, display, brief and send command and control directives and mission essential information. The system supports day-to-day operations within the Army Operations Directorate, all crisis actions and JCS/HQDA exercises, as well as all DoD DOMS. FY 00/01 funds will procure critical components for the LAN and BDS systems. These components will improve reliability, broaden and enhance systems management capabilities, bolster security, and maintain compatibility and integration with the GCCS/GCCS-A and other Army unique and Joint Staff systems. Procurements will focus on additional computer operations management tools; increased critical component redundancy; enhanced systems security and security monitoring; continued improvement to

Exhibit P-40C Budget I	tem Justific	cation Sheet		Date February 1999
Appropriation / Budget Activity/Serial No.			P-1 Item Nomenclature	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				HQ MANAGEMENT INFORMATION SYSTEMS (BE4161)
Program Elements for Code B Items	Code	Other Related Prog	ram Elements	
procedures evolve, the Site R facilities keep pace and are capable of supp	t Site R which h NMCC functions orting the full ra Control System	nouses the Altern is in times of crisi ange of national (in to support the N	nate National Military Command C is or when the NMCC is not other Command and Control missions. National Military Command Cente	

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREM				m Nomenclature: ANAGEMENT INF SYSTEMS (BE4	ORMATION		Weapon System	Туре:	Date: Feb	uary 1999
OPA	ID		FY 98			FY 99	,		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Headquarters, Department of the Army Automated Data Processing Equipment (HQDA ADPE)	А	1277	VAR	VAR	1392	VAR	VAR	1752	VAR	VAR	1730	VAR	VAR
Army Model Improvement Program (AMIP)	Α				651	VAR	VAR	587	VAR	VAR	617	VAR	VAR
Legal Automation Army-Wide Systems (LAAWS)	Α	400	VAR	VAR	588	VAR	VAR						
Housing Operations Management System (HOMES)	А	426	VAR	VAR	503	VAR	VAR	455	VAR	VAR	448	VAR	VAR
Strategic C2 Facilities	А	714	VAR	VAR	685	VAR	VAR	892	VAR	VAR	879	VAR	VAR
Site R Integration Program (SRIP)	А	646	VAR	VAR	1859	VAR	VAR	1826	VAR	VAR	1854	VAR	VAR
TOTAL		2462			5670			<i>EE</i> 40			EEOO		
TOTAL		3463			5678			5512			5528		

								Date:		
Ext	nibit P-5a, Budget Procurement	t History a	and Planning						February	1999
Appropriation / Budget Activity/Serial No:		Weapon Sys	tem Type:		P-1 Line Item	Nomenclatur	e:			
OTHER PROCUREMENT / 2 / Communications and Electric	onics				Н	Q MANAGEME	ENT INFORMATION	N SYSTEM	/IS (BE416	61)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
HQDA ADPE:										
-HQDA Correspondence Tracking system										
FY 98	Universal Hi Tech Development	C/FP	DSSW	Mar-98	May-98	VAR	VAR	YES		
FY 99	TBS	C/FP	DSSW	Apr-99	Jun-99	VAR	VAR		NO	
FY 00	TBS	C/FP	DSSW	Mar-00		VAR	VAR	YES	NO	
FY 01	TBS	C/FP	DSSW	Mar-01	May-01	VAR	VAR		NO	
-CAA ADP Modernization										
FY 98	IBN Corporation	C/FP	DSSW	Apr-98	Jun-98	VAR	VAR	YES		
FY 99	твѕ	C/FP	DSSW	Mar-99		VAR	VAR		NO	
FY 00	TBS	C/FP	DSSW		May-00	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	DSSW	Mar-01	May-01	VAR	VAR	YES	NO	
-Defense Message System (DMS)										
FY 98	VAR**	C/FP	DSSW	VAR*	VAR*	VAR	VAR	YES		
FY 99	TBS	C/FP	DSSW	VAR*	VAR*	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	DSSW	VAR*	VAR*	VAR	VAR	YES	YES	Oct-99
FY 01	TBS	C/FP	DSSW	VAR*	VAR*	VAR	VAR	YES	YES	Oct-00
Army Model Improvement Program (AMIP):										
-Workstation hardware and software										
FY 99	TBS	C/FP	VAR*	Feb-99	Apr-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	VAR*	Feb-00		VAR	VAR		NO	
FY 01	TBS	C/FP	VAR*	Feb-01	Apr-00	VAR	VAR		NO	
	1.50	0/11	77.11	1 65-01	/3pi=01	VAIX	VAIX	123		

IBN Corporation - International Business Network, Vienna, VA

Universal Hi Tech Development, Rockville, MD

VAR - Unit cost and quantities vary by configuration

VAR* - Multiple Contract awards/delivery throughout the year.

VAR**- GTSI/Microsoft, Chantilly, VA; Comteq Federal Inc, Rockville and Greenbelt, MD; Lockheed-Martin Federal Systems, Manassas, VA; Compaq Computer Corp, Bethesda, MD; Comark Federal Systems, Chantilly, VA

DSSW-Defense Supply Service-Washington EDS - Electronic Data Systems - Herndon, VA

MDW- Military District of Washington, DC

Exhibit	P-5a, Budget Procuremer	nt History a	and Planning					Date:	February	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon Syst	tem Type:			Nomenclatur Q MANAGEMI	e: ENT INFORMATION	N SYSTEM	/IS (BE416	61)
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issue Date
Legal Automation Army-wide Systems (LAAWS): -Enhance Staff Judge Advocate Offices LANs/ Deploy JAGNET Corporate Database Servers FY 98 -Deploy Remaining JAGNET Servers/ Enhance/Replace JAGNET Office LANs and workstations	EDS	C/FP	MDW Acquisition Center	Feb-98		VAR			NO	
FY 99 Housing Operations Management System (HOMES): -Computers, Printers, High Speed Batch Printers, and Communication Equipment FY 98 FY 99 FY 00 FY 01	DELL/Telos TBS TBS TBS	C/FP C/FP C/FP C/FP	MDW Acquisition Center GSA GSA GSA GSA	Feb-99 Feb-99 Feb-00 Feb-01	Mar-98	VAR VAR VAR VAR	VAR VAR	YES YES YES	NO NO NO NO	

REMARKS: EDS - Electronic Data Systems - Herndon, VA

GSA- General Services Administration, Region 8, Denver,CO

MDW-Military District for Washington, DC

VAR - Unit cost and quantities vary by configuration

VAR* - National Simulation Center (NSC), Concepts Analysis Agency (CAA), TRADOC Analysis Center (TRAC); USA Materiel Systems Analysis Activity (USAMSAA); Topographic Engineering Center (TEC) Army Research LAB (ARC), White Sands Missile Range (WSMR); Operational Test and Evaluation Command (OPTEC)

Dell Computer Corp, Round Rock, TX

Telos Corp., Fairfax, VA

Exhil	bit P-5a, Budget Procureme	nt History a	and Planning					Date:	February	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronic		Weapon Syst				n Nomenclatur Q MANAGEMI	e: ENT INFORMATIOI	N SYSTEM	/IS (ВЕ416	61)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date		QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
STRATEGIC C2 FACILITIES -Briefing Display System (BDS) -Security, Admin and Spt Tools -Automated Message handling -Data System/Application Management -COM/LAN Segment; GCCS Integration -LAN Lifecycle Management -Matrix Switch -Command Center Applications -Integration Testing -Image Boss Upgrade FY 98 FY 99 FY 00 FY 01	JPL JPL JPL JPL	C/CPAF C/CPAF	NASA/DSSW NASA/DSSW NASA/DSSW NASA/DSSW	VAR* VAR* VAR*	VAR* VAR* VAR*	VAR VAR VAR VAR	VAR	YES NO	NO NO NO	
Site-R Integration Program (SRIP) -Emergency Action Center and Configuration Management System FY98 -Radio, Paging, and High Altitude Electromagnetic Pulse Hardening FY98	VAR** VAR***	C/FP VAR****	VAR*** VAR****	VAR* VAR*	VAR*	VAR VAR			NO NO	

REMARKS: VAR - Unit cost and quantities vary by configuration

VAR*- Multiple contract awards/deliveries throughout the year.

VAR** - Sheridon Inc., Arlington, VA; SRA Inc., Fairfax, VA; SAIC Inc., Ft. Ritchie, MD

VAR**** - General Service Administration and US Army Communications-Electronics Command, Ft Ritchie, MD

DSSW - Defense Supply Service-Washington, DC JPL - Jet Propulsion Laboratory, Pasadena, CA

NASA- National Aeronautical Space Administration

VAR**** - Contracts (C/FP): Hughes, Fort Wayne, IN and Motorola Inc., Schaumberg, IL. MIPRs: US Army Information Systems Engineering Command,

Ft Huachuca, AZ; Army Research Lab, Adelphi, MD; and 1111th Signal Battalion, Ft Ritchie, MD

VAR***** - US Army Communication-Electronics Command, Ft Monmouth, NJ and Directorate of Contracting, Ft Huachuca, AZ

Exh	ibit P-5a, Budget Procurement	History a	and Planning					Date:	February	1999
Appropriation / Budget Activity/Serial No:		Weapon Syst			P-1 Line Item	Nomenclatur	e:			
OTHER PROCUREMENT / 2 / Communications and Electron Equipment	nics				Н	Q MANAGEME	ENT INFORMATION	N SYSTEM	/IS (BE416	,
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Site-R Integration Program (SRIP) Continued										
-Secure Local Area Network										
(Hardware, Software, Engineering,										
and Program Management)										
FY99	VAR**	VAR**	VAR***	VAR*	VAR*	VAR			NO	
FY00 FY01	VAR** VAR**	VAR** VAR**	VAR*** VAR***	VAR* VAR*	VAR* VAR*	VAR VAR	VAR VAR		NO NO	
FTOI	VAR	VAR	VAR	VAK	VAR	VAR	VAR	NO	INO	
-Unclassified Local Area Network										
(Hardware and Software)										
FY98	Force 3 Inc., Gaithersburg, MD	C/FP	GSA	Aug-98	Oct-98	VAR	VAR	YES	NO	
FY01	TBS	C/FP	TBS	Feb-01	Apr-01	VAR	VAR	NO	NO	

REMARKS: CECOM - US Army Communications-Electronics Command

CECOM-ISED - CECOM Information Systems Engineering Directorate, Ft Detrick, MD

CECOM-SMC - CECOM Software Management Center, Ft Monmouth, NJ

VAR - Unit cost and quantities vary by configuration

VAR*- Multiple contract awards/deliveries throughout the year.

VAR** - Contracts (C/FP): TBS. MIPRs: CECOM-ISED and CECOM-SMC

VAR*** - CECOM, Ft Monmouth, NJ; GSA; CECOM, Ft Detrick, MD

GSA - General Services Administration, Region 8, Denver, CO

								Date:				
		Exhibit P-4	l0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:	•				
OTHER F	PROCUREMENT / 2 / Com	nmunications and El	ectronics Equipmen	nt				MACOM AL	TOMATION SYSTE	MS (BE4162)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
			1				1	T	1			
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	127.2	19.0	24.9	30.6	38.9	83.3	80.3	117.8	50.6	40.6	0.0	613.2
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	127.2	19.0	24.9	30.6	38.9	83.3	80.3	117.8	50.6	40.6	0.0	613.2
Initial Spares												
Total Proc Cost	127.2	19.0	24.9	30.6	38.9	83.3	80.3	117.8	50.6	40.6	0.0	613.2
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: This supports automation systems requirements of Major Army Commands (MACOMs) and activities not included in other centrally managed programs. These requirements conform with the Army's Information Management (IM) Architecture and are included in MACOM IM Modernization Plans. Funding has been programmed to accomplish high priority/high payoff initiatives which offer efficiencies and improvements in mission support and reduce operations and maintenance costs. Acquisitions will be accomplished primarily through standard requirements contracts.

JUSTIFICATION:

MACOM AUTOMATION SYSTEMS: FY 00/01 funds support systems modernization/life cycle replacement throughout Forces Command (FORSCOM), US Army Europe (USAREUR), Training and Doctrine Command (TRADOC), Army Materiel Command (AMC), Military District of Washington (MDW), Eighth US Army (EUSA), US Army Pacific (USARPAC), US Army Recruiting Command (USAREC), Army Signal Command (ASC), Army War College (AWC), Criminal Investigation Command (CIDC), U.S. Army Medical Command (MEDCOM), and Intelligence and Security Command (INSCOM). Acquisitions include hardware, software, networking products, and peripherals that are required for MACOM/end user level systems architecture and the transition to an open systems environment (OSE). These systems perform vital functions throughout the sustaining base, and modernization is essential to accommodate growing information processing requirements with declining manpower resources. This funding is necessary to provide life cycle replacement of obsolete information processing equipment (IPE), which will eliminate excessive maintenance costs and facilitate productivity growth through advances in information systems technology, thus streamlining manpower intensive operations. Funding will also support MACOM efforts to reengineer business processes, infrastructure to support leaner organizations, and the total compatibility and interoperability needs of a force projection Army. FY 00 MDW funding also provides infrastructure to support the Armed Forces Inaugural Committee (AFIC), which supports the coordination of parades, chaperons, balls, and security on a non-partisan basis for the 2000 Presidential election.

Exhibit P-40C Budget It	tem Justific	cation Sheet		Date February 1999
Appropriation / Budget Activity/Serial No.			P-1 Item Nomenclature	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				MACOM AUTOMATION SYSTEMS (BE4162)
Program Elements for Code B Items	Code	Other Related Progra	am Elements	

(continued)

ARMY ELECTRONIC COMMERCE (EC): Army Electronic Commerce synthesizes the benefits of business process re-engineering and the migration from aged paper-based business processes to fully electronic processes. Using streamlined and technically innovative business practices, Army EC unites all functional areas into a cohensive electronic business network. Army EC implements Executive direction for the Federal Government and Defense Services/Agencies to implement Electronic Commerce globally. Army EC complements other Defense-wide efforts such as the Defense Reform, Paperless Acquisition, Joint Computer-aided Acquisition and Logistics Support, and PKI for Defense Travel System. By conducting business electronically, the Army will be able to expedite normal business transactions, particularly during surges associated with military mobilization. Army EC helps create the digitized power projection platform necessary for the sustainment of the Army's digitized battlefield through electronic commerce with its Industrial Partners. Army EC supports pilot projects as "proof-of-concept" of EC technologies applied to re-engineered business processes. Army Electronic Commerce funds acquire hardware, software and communications for implementing Army EC based on business process re-engineering and Army priorities that comply with the Secretary of Defense Directives outlined in the Defense Reform Initiative Report. Implementation will be in coordination with Army functional proponents, OSD, and the Defense Information Systems Agency (DISA). Acquisitions will include hardware and software to accommodate translating electronic output into standard formats consistant for Electronic Data Exchange and Public Key Infrastructure, as well as acquisition of other EC technologies that support the Army's transition to a paperless environment. FY00 funds acquire hardware and software required to finish fielding the Standard Procurement System (SPS) Army-wide.

ARMY ENTERPRISE ARCHITECTURE (AEA): The AEA directly supports the need to address business process improvements, develop interoperable information resources, recommend protocols and standards for information technology and plan an interoperable C4I architecture. The AEA works directly to establish the information framework to support Joint and Army information (technology) visions, architectures and plans designed to win the battlefield information war and dominate maneuver battle. Funding will provide a full range of Army-wide services, to include technical integration of software architectures and data management, domain engineering, and internet services, including education in domain engineering, software reuse and data management. Funding also supports Army-wide common operating environment, data modeling and data standardization efforts, access to Joint Techical Architecture - Army and internet web page and list server design, development and maintenance use. FY 00/01 funds will provide the resources necessary for the on-going development of the AEA infrastructure and procurement of hardware, software, and modeling tools necessary to provide both the combat and the materiel development communities with integrated systems critical to the development of a shared data environment. These funds will target specifically the Systems and Operational Architecture production tools. The objective products include standard data elements, activity models, data architectures, data models and systems Architecture components for Force XXI Digitized Corps/Division, Army After Next Corps/Division, Joint and Echelons-above-Corps (EAC) operations and training. This infrastructure will substantially improve the Army's ability to produce and share dynamic models, based on doctrinally developed static representations of information exchange requirements. These tools are needed to continue the migration of materiel developers programs (weapons, C4I, and sustainment systems) to the DoD Common Operating Environment. The AEA infras

ARMY WARFIGHTING EXPERIMENT (AWE): Funds support modeling, simulation and Joint Venture analysis for the Joint Contingency Force AWE in FY00 and the Division Capstone Exercise in FY01. Funds purchase equipment that provide the capability for constructive, virtual and live simulation for examination of warfighting concepts across TRADOC's domains of Doctrine, Training, Leader development, Organization, Materiel and Soldiers (DTLOMS). FY 00/01 funds purchase equipment which will augment current materiel used for ongoing TRADOC efforts to analyze information operations, support Operational/Systems Architecture development, evaluate the impact of Army light forces during deployment, explore ways to improve force projection, and enhance the Army contribution to the joint warfight. TRADOC funding upgrades wide-area network communication devices and critical capabilities for the Joint Virtual Laboratory and Battle Lab/DOD Simulation Centers.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Bu OTHER F Communications	ROCUREN	ENT/2/			m Nomenclature: JTOMATION SYS	STEMS (BE4162)		Weapon System	Туре:	Date: Feb	ruary 1999
OPA	ID	Communications	FY 98	onics Equipment		FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
MACONA Automotica Contamo													
MACOM Automation Systems:		4000	\/AD	\/A.D.	0500	\/A.D	\/A.D	4.407	\/A.D	\/A.D	4500	\/A.D	\
-FORSCOM Automation	Α	1906	VAR	VAR	2592	VAR	VAR	4407	VAR	VAR	4526		VAF
-USAREUR Automation	Α	641	VAR	VAR	789	VAR	VAR	763	VAR	VAR	784	VAR	VAF
-TRADOC Automation	Α	4223	VAR	VAR	3645	VAR	VAR	8830	VAR	VAR	6026		VAF
-AMC Automation	Α	1868	VAR	VAR	2009	VAR	VAR	3860	VAR	VAR			VAF
-MDW Automation	Α	272	VAR	VAR	335	VAR	VAR	1182	VAR	VAR	355	VAR	VAF
-EUSA Automation	Α	279	VAR	VAR	395	VAR	VAR	367	VAR	VAR	804	VAR	VAF
-USARPAC Automation	Α	322	VAR	VAR	394	VAR	VAR	525	VAR	VAR	411	VAR	VAF
-USAREC Automation	Α	547	VAR	VAR	664	VAR	VAR	2393	VAR	VAR	2057	VAR	VAF
-Army Signal Command Automation	Α	770	VAR	VAR	831	VAR	VAR	884	VAR	VAR	922	VAR	VAF
-INSCOM Automation	Α	100	VAR	VAR	182	VAR	VAR	205	VAR	VAR	244	VAR	VAF
-CIDC Automation	Α										292	VAR	VAR
-MEDCOM Automation	Α										392	VAR	VAR
-AWC Automation	Α	115	VAR	VAR	108	VAR	VAR	106	VAR	VAR	104	VAR	VAR
SUBTOTAL	Α	11043			11944			23522			20865		
Army Electronic Commerce	Α	247	41*	VAR	10928	209*	VAR	6860	110*	VAR			
Army Enterprise Architecture (AEA)	Α	1681	VAR	VAR	1812	VAR	VAR	2627	VAR	VAR	2594	VAR	VAR
Joint Warfighter Interoperability Demonstration	Α	1700	VAR	VAR									
Logistic Integration Database (LIDB)	Α	3207	VAR	VAR									
Army Warfighting Experiment (AWE)	Α	7032	VAR	VAR	5949	VAR	VAR	5885	VAR	VAR	59863	VAR	VAR
TOTAL		24910			30633			38894			83322		

	bit P-5a, Budget Procureme							Date: February 1999			
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronic	cs	Weapon Syst	em Type:		P-1 Line Item	Nomenclatur					
Equipment		Contract	_	ī		MACOM A	AUTOMATION SYS		24162) Date	RFP Issue	
WBS Cost Elements:	Contractor and Location	Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Revsn	Date	
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail		
FORSCOM Automation											
-FORSCOM Cmd Data Base											
-Office/Department Local Area Network											
-FORSCOM Automation Modernization Effort											
FY 98	VAR***	C/FP	VAR**	VAR*	VAR*	VAR	VAR	YES	NO		
FY 99	TBS	C/FP	TBS	Mar-99	Jun-99	VAR	VAR	YES	NO		
FY 00	TBS	C/FP	TBS	Jan-00	Mar-00	VAR	VAR	YES	NO		
FY 01	TBS	C/FP	TBS	Jan-01	Mar-01	VAR	VAR	YES	NO		
USAREUR Automation -ISM Server											
-ATM Network											
-Streamlined Process for Accounting		0/50	050014 15 1	D 07	1.1.00	\		\/F0			
FY 98	VAR****	C/FP	CECOM and Regional Contracting Office, Wiesbaden, Germany	Dec-97	Jul-98	VAR	VAR	YES	NO		
-Facility LANs			, ,								
FY 99	TBS	C/FP	Regional Contracting Ofc Wiesbaden, Germany	Feb-99	Apr-99	VAR	VAR	YES	NO		
FY 00	TBS	C/FP	Regional Contracting Ofc Wiesbaden, Germany	Dec-99	Apr-00	VAR	VAR	NO	NO		
FY 01	TBS	C/FP	Regional Contracting Ofc Wiesbaden, Germany	Dec-00	Apr-01	VAR	VAR	NO	NO		

CECOM - Communications and Electronics Command, Ft. Monmouth, NJ.

VAR*- Multiple contracts awarded/delivered throughout the year

VAR - Unit costs and quantities vary by configuration

VAR**- Ft Irwin Contracting Ctr; CECOM Acquisition Center; Ft Hood Contracting Ofc; NAWC-AD, St Inigoes, MD; Atlanta Area Contracting Ctr; GSA, Kansas City, MO

VAR***- Hewlett Packard, Rockville, MD; GTE Gov't Sys Corp. Taunton, MA; Lucent Tech, Charlotte, NC; TRACTOR Applied Sciences Inc., Austin, TX; LogicWorks, Vienna, VA; Anteon Corp., Fairfax, VA; Software Systems Inc., SFO, CA; Compaq Computer Corp, Houston, TX; GTSI Inc., Chantilly, VA; Concord Commo, Orange, CA; Micron Electronics Inc., Nampa, ID; Comark Fed Sys, Chantilly, VA; Westwood Computer Corp, Springfield, NJ VAR****-Small Computer Issue Activity (SCIA). Mannheim. Germany; MA Impianti. Vicenza. Italy

Exhi	bit P-5a, Budget Procuremen	t History a	ınd Planning					Date:	February	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electron Equipment	ics	Weapon Syst	ет Туре:		P-1 Line Item	Nomenclature	e: AUTOMATION SYS	TEMS (BE	E4162)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
TRADOC Automation										
-IM Infrastructure										
FY 98	Lucent Technologies	C/FP	GSA, Ft Worth, TX	Mar-98		VAR	VAR	YES	NO	
FY 99	TBS	C/FP	GSA, Ft Worth, TX	Feb-99	Apr-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	GSA, Ft Worth, TX	Jan-00	Mar-00	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	GSA, Ft Worth, TX	Jan-01	Mar-01	VAR	VAR	YES	NO	
-Classroom XXI										
FY 98	Federal Data, Washington, DC	C/FP	GSA, Kansas City, MO	Aug-98	Nov-98	VAR	VAR	YES	NO	
-Distance Learning										
FY 98	Commercial Satellite Sys, Inc. Chantilly, VA	C/FP	Ft Eustis, VA	Sep-98	Oct-98	VAR	VAR	YES	NO	
-Models and Simulations	•									
FY 98	GEIT Solutions, Seattle, WA	C/FP	GSA Denver, CO	Apr-98	Jul-98	VAR	VAR	YES	NO	
-Upton Hall (Hardware/Software)										
FY00	TBS	C/FP	DOC Carlisle Barracks. PA	Jul-00	Nov-00	VAR	VAR	YES	NO	
F 100	165	C/FF	DOC Callisie Ballacks, PA	Jui-00	1404-00	VAK	VAR	IES	INO	
AMC Automation										
-Replace Non-Year 2000 Compliant Hardware										
-Minicomputers, LANs, Servers										
FY 98	PRC/Mason & Hanger Corp.	C/FP	CECOM	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	CECOM	VAR*	VAR*	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	СЕСОМ	VAR*	VAR*	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	СЕСОМ	VAR*	VAR*	VAR	VAR	YES	NO	

REMARKS: CECOM - Communications and Electronics Command

VAR - Unit costs and quantities vary by configuration PRC-Planning Research Corporation, Reston, VA

Mason & Hanger Corp - Mason & Hanger Corporation, Lexington, KY

Lucent Technologies, Greensboro, NC

GSA - General Services Administration

VAR*- Multiple contracts awarded/delivered throughout the year

xhibit P-5a, Budget Procuremer	nt History a	and Planning					Date:	February	1999
ectronics	Weapon Syst	tem Type:		P-1 Line Item			TEMS (BE	4162)	
Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
	and Type			Delivery	Each	\$000	Now?	Avail	
OAO Technology	C/FP	GSA	VAR*	VAR*	VAR	VAR	YES	NO	
TBS	C/FP	TBS	VAR*	VAR*	VAR	VAR	YES	NO	
TBS	C/FP	TBS	VAR*	VAR*	VAR	VAR	YES	NO	
TBS	C/FP	TBS	VAR*	VAR*	VAR	VAR	YES	NO	
TBS	C/FP	TBS	VAR*	VAR*	VAR	VAR	YES	NO	
								_	
TBS	C/FP	USACCK	VAR*	VAR*	VAR	VAR	YES	NO	
VAR***	C/FP	VAR****	VAR*	VAR*	VAR		_	NO	
TBS	C/FP	VAR****			VAR	VAR	_	NO	
TBS	C/FP	TBS	VAR*	VAR*	VAR	VAR	YES	NO	
TBS	C/FP	TBS	VAR*	VAR*	VAR	VAR	YES	NO	
	OAO Technology TBS TBS TBS TBS TBS TBS TBS TBS TBS TBS	Contractor and Location Contract Method and Type OAO Technology TBS C/FP	Contractor and Location Contract Method and Type Location of PCO OAO Technology C/FP GSA TBS C/FP TBS TBS C/FP TBS TBS C/FP TBS TBS C/FP TBS VAR*** C/FP USACCK TBS C/FP USACCK TBS C/FP USACCK VAR**** C/FP USACCK VAR**** C/FP VAR***** TBS C/FP VAR***** TBS C/FP VAR***** TBS C/FP TBS	Contractor and Location	Contractor and Location Contract Method And Type Location of PCO Award Date Date of First Delivery	Contractor and Location	Contractor and Location	Contractor and Location	Contractor and Location

REMARKS: OAO Technology Solutions Inc., Greenbelt, MD

GSA - General Services Administration

VAR - Unit costs and quantities vary by configuration

VAR**- EDS, Herndon, VA; GTSI, Chantilly, VA; Sysorex, Fairfax, VA;

BTG, McLean, VA;

VAR****- GSA San Francisco, CA; Defense Logistics Agency, Ft Belvoir, VA; Yokoto Air Base Contracting Ofc;

USACCK - US Army Contracting Command - Korea

AFIC - Armed Forces Inaugural Committee

VAR*- Multiple contracts awarded/delivered throughout the year

VAR***- Pacific Communications, Lake Oswego, OR; Kells Gov Micro Inc., Seattle, WA; SMF Systems Corp., San Ramon, CA; Synchrotec Software Corp., Diego, CA

Exhi	ibit P-5a, Budget Procureme	nt History a	and Planning					Date:	February ⁻	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electror Equipment	nics	Weapon Syst	тем Туре:		P-1 Line Item	Nomenclature	e: AUTOMATION SYS	TEMS (BE	4162)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
USAREC Automation										
-Recruiting Computer Systems										
FY 98	VAR**	C/FP	Ft Eustis Contracting Ofc	VAR*	VAR*	VAR	VAR			
FY 99	TBS	C/FP	Ft Eustis Contracting Ofc	VAR*	VAR*	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	TBS	VAR*	VAR*	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	TBS	VAR*	VAR*	VAR	VAR	YES	NO	
Army Signal Command Automation										
-Hardware/Software/Life Cycle Replacement										
FY 98	VAR***	C/FP	VAR***	VAR*	VAR*	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	VAR***	VAR*	VAR*	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	VAR***	VAR*	VAR*	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	VAR****	VAR*	VAR*	VAR	VAR	YES	NO	
AWC Automation										
-War College LAN Upgrade										
FY 98	Lucent Technologies	C/FP	CECOM	Dec-97	Feb-98	VAR	VAR	YES	NO	
FY 99	Lucent Technologies	C/FP	CECOM	Jan-99	Feb-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	CECOM	Nov-99	Feb-00	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	CECOM	Nov-00	Feb-01	VAR	VAR	YES	NO	
INSCOM Automation										
-513th LAN/WAN Systems										
FY 98	GTE - Chantilly, VA	C/FP	DCMAO Van Nuys, CA	Jan-98	Feb-98	VAR	VAR	YES	NO	
FY 99	GTE - Chantilly, VA	C/FP	DCMAO Van Nuys, CA	Jan-99		VAR	VAR		NO	
FY 00	TBS	C/FP	DCMAO Van Nuys, CA	Jan-00		VAR	VAR	YES	NO	
FY 01	TBS	C/FP	DCMAO Van Nuys, CA		Feb-01	VAR		YES	NO	

REMARKS: Lucent Technologies, Greensboro, NC

VAR - Unit costs and quantities vary by configuration

VAR**-BTG, Fairfax, VA; FDC, Greenbelt, MD

VAR***- I NET, Inc., Bethesda, MD; WANG Gov Services, Bethesda, MD; Presidio Corp., Lanham, MD

VAR****- CECOM and Mannheim Regional Contracting Office, Mannheim, Germany

DCMAO - Defense Contract Administration Office

CECOM - Communications and Electronics Command

VAR*- Multiple contracts awarded/delivered throughout the year

Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No:		Weapon Syst			P-1 Line Item	n Nomenclatur	e:			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment						MACOM A	AUTOMATION SYS	TEMS (BE	4162)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
USACIDC Automation -HP 9000 k570 with enhancements and peripherals										
FY 01	TBS	C/OPT	Ft Belvoir, VA DOC	Dec-00	Apr-01	VAR	VAR	YES	NO	
MEDCOM Automation -Medical facility Network File Servers FY 01	TBS	C/FP	Ft Sam Houston DOC	Mar-01	May-01	VAR	VAR	YES	NO	
Army Electronic Commerce -ADPE/Software/Communication Devices										
FY 98	VAR**	C/FP	CAC-W	Apr-98	May-98	41	VAR	YES	NO	
FY 99	TBS	C/FP	CAC-W	Feb-99		209	VAR	_	NO	
FY 00	TBS	C/FP	CAC-W	Nov-99	Dec-99	110	VAR	YES	NO	
Army Enterprise Architecture (AEA) -Hardware/Software/Modeling Tools										
FY 98	VAR***	C/FP	DOC Ft Belvoir,VA/CECOM	VAR*	VAR*	VAR	VAR		NO	
FY 99	TBS	C/FP	DOC Ft Belvoir, VA/CECOM	VAR*	VAR*	VAR	VAR	_	NO	
FY 00 FY 01	TBS TBS	C/FP C/FP	DOC Ft Belvoir, VA/CECOM DOC Ft Belvoir, VA/CECOM	VAR* VAR*	VAR* VAR*	VAR VAR	VAR VAR		NO NO	
F 1 01		C/FP	DOC I'T BEIVOII, VAVOECOM	VAR	VAR	VAK	VAR	163	INO	

REMARKS: VAR - Unit costs and quantities vary by configuration

VAR**- American Management System (AMS), Fairfax, VA;

Computer Sciences Corporation (CSC), Marlton, NJ; and GTSI, Chantilly, VA

VAR***- SUN Microsystems, Fairfax, VA; Harris Corp., Northern VA; Mitre, Reston, VA

CAC-W - CECOM Acquisition Center - Washington Operations Office

VAR*- Multiple contracts awarded/delivered throughout the year CECOM - Communications and Electronics Command

Option - Priced

Exhib	oit P-5a, Budget Procureme	nt History a	and Planning					Date:	February	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronic Equipment	s	Weapon Syst	em Type:		P-1 Line Item	Nomenclature MACOM A	e: AUTOMATION SYS	TEMS (BE	4162)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Joint Warfighting Interoperability Demonstration FY 98	SAIC, McLean, VA Titan, Reston, VA	C/FP	Space and Naval Warfare System Command San Diego, CA	VAR*	VAR*	VAR	VAR	YES		
Army Warfighting Experiment (AWE) -Comm Hardware, Software & Peripherals FY 98 FY 99 FY 00 FY 01	VAR** TBS TBS TBS	C/FP C/FP C/FP	VAR*** STRICOM, Orlando, FL TBS TBS		VAR* Aug-99 May-00 May-01	VAR VAR VAR VAR	VAR VAR VAR VAR	YES NO	NO NO NO	
Log Integration Data Base - ADPE Hardware FY 98	VAR***	C/FP	Logistics Support Agency	VAR*	VAR*	VAR	VAR	YES	NO	

REMARKS: CECOM - Communications and Electronics Command

VAR - Unit costs and Quantities vary by configuration

VAR*- Multiple contracts awarded/delivered throughout the year

STRICOM - US Army Simulation, Training and Instrumentation Command

VAR**- Booz, Allen & Hamilton, McLean, VA; TRW Inc., Carson, CA; Lockheed-Martin Fed Sup Inc., Manassas, VA; Shenkon Inc., Chantilly, VA;

Digital Equipment Corp., Greenbelt, MD; Government Tech Services Inc., Chantilly, VA; GTE Govt Services Corp, Taunton, MA; United Defense LP, Santa Clara, CA;

VAR***- CECOM and Ft Belvoir, DOC, VA; GSA, Denver Co; CECOM; Ft Leavenworth Mission Contracting Activity; Naval Airwarfare Ctr, Orlando, FL;

STRICOM, Orlando, FL

VAR****-SUN Microsystems, McLean, VA; TELOS Systems Inc., Ashburn, VA

		Evhibit D./	In Budget	ltom luctifi	cation Sheet			Date:						
		EXHIBIT P-4	io, Buaget	item Justini	ation Sheet					February 1999				
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	-						
OTHER P	PROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				PERSONNEL	AUTOMATION SYS	TEMS (BE4164)				
Program Elements for Code B I	tems:			Code:	Other Related Prog	rogram Elements:								
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog		
Proc Qty														
Gross Cost	155.2	36.9	35.5	19.7	25.5	29.8	27.4	32.2	27.2	23.5	0.0	412.9		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	155.2	36.9	35.5	19.7	25.5	29.8	27.4	32.2	27.2	23.5	0.0	412.9		
Initial Spares														
Total Proc Cost	155.2	36.9	35.5	19.7	25.5	29.8	27.4	32.2	27.2	23.5	0.0	412.9		
Flyaway U/C														
Wpn Sys Proc U/C														

DESCRIPTION: This budget line provides for the purchase of automated data processing equipment (ADPE) for management information systems in the personnel community. The systems are part of the approved Personnel System architecture and the Army Modernization Plan.

JUSTIFICATION:

PERSONNEL ENTERPRISE SYSTEM-AUTOMATION (PES-A): PES-A is an ADP acquisition and redesign/implementation program which ensures that adequate, modern, state-of-the-art automation infrastructure (automation training, computer platforms, services, telecommunications and productivity/automation tools) is available to support the warfighter. The PES-A supports all five personnel functions, including recruiting, and is key to execution of day-to-day operations within the Army (e.g., strength accounting, personnel movement, assignment actions, career management, training, recruiting, reenlistment and mobilization). It is the vehicle by which personnel are managed and information is provided to DoD, and ultimately, to Congress. The PES-A provides interoperability between key data processing installations of the Army's Personnel Community; the Total Army Personnel Command (PESCOM) Army Reserve Personnel Command (AR-PERSCOM), Army Recruiting Command (USAREC), National Guard Personnel Center (NGPERCEN), and the Military Entrance Command (MEPCOM), a Joint command for which the Army is the executive agent. It has been the Cornerstone of the Army's personnel automation capability required to support emerging systems through the late 1990's and beyond. It fits into the Army Enterprise Strategy, supporting the modernization of Power Projection Platforms. FY 00/01 funding will buy automation infrastructure, communications capability, and system modeling to support the personnel community consolidation initiative and distributed capabilities. Continued implementation of PES-A will be a major step toward providing information as a force multiplier and integration of the Army's personnel community, with emphasis on system interoperability and the Total Army Personnel Data Base, permitting integration of Active, Reserve, Civilian, and Army National Guard systems.

Exhibit P-40C Budget I	tem Justifi	cation Sheet	:	Date February 1999
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			P-1 Item Nomenclature	PERSONNEL AUTOMATION SYSTEMS (BE4164)
Program Elements for Code B Items	Code	Other Related Progr	ram Elements	
resources can be shared by USMEPCOM and SSS. The JCC mission increquirements. FY 00/01 funds will procure new technology cartridge tape of USMEPCOM and SSS peacetime processing requirements. The funds will DASD replace obsolete DASD equipment and also provide additional space. US MILITARY ACADEMY (USMA) INFORMATION MANAGEMENT ARC and to instruct/prepare future Army leaders to operate in the sophisticated technology/instructional tools. FY 00/01 funds will buy hardware and softwo	ludes the mana drive systems, ill also procure the for the users CHITECTURE (high-tech world vare to support tworks, the Enti	agement and enh high speed printe a front-end common processing requirements (IMA) MODERNIZ d of modern warfatechnology infrasterprise automatic	nancement of shared resourcers, direct access storage developments. ZATION: The USMA is an access in accordance with Joint astructure systems essential to	SS) formalized the establishment of the JCC where automatic data processing es, in full support of USMEPCOM and SSS peacetime and mobilization mission rices (DASD), and the IBM OS/390 Operating System software which supports relational data base management software system. All acquired new technology coredited institution of higher learning. To maintain its accreditation standards and Army Visions, it must employ in its classrooms/laboratories the latest every aspect of education, training, and command and control of the USMA and imaging systems, computer labs, upgraded classroom information technology,
Military Entrance Processing Stations (MEPS) operations by automating fu	power accession veen USMEPCon unctions previou ptitude Battery	on mission for the OM and all the Au usly done manual (ASVAB) test give	e Armed Services. The MIR: rmed Services recruiting com lly. This project also include en to determine applicants m	S will interface with recruiting capabilities for all services, incorporating the mands, greatly reducing redundant data entry. MIRS continues to improve s Computerized Adaptive Testing-Armed Services Vocational Aptitude Battery ental abilities. FY00 funding will continue to purchase memory to allow interface
DEFENSE CIVILIAN PERSONNEL DATA SYSTEM MODERNIZATION (regionalization of Civilian Personnel Offices. DCPDS MOD procurement e capability. Automation infrastructure fielded to Army activities will consist of	xpenditures pr	ovide automation	infrastructure to support field	, ,

infrastructure, and Commercial Off the Shelf (COTS) software, (operating system, DBMS, office automation, etc.) fielded to ten Army Regional Service Centers (RSCs) and more than 100 subordinate installation level

Customer Support Units (CSUs). Army automation infrastructure will be compatible with the DoD DCPDS MOD application software and integrate with the OSE architecture at Army sustaining base sites.

Procurement strategy makes maximum use of existing contracts. This effort is projected to improve DoD-wide productivity over 30% in the civilian personnel management functional area in order to accommodate reductions already applied to outyear Army Budget. The initial DCPDS-MOD infrastructure acquisition concludes in FY99. FY00 funds support life cycle infrastructure replacement of the first two (of ten) Army RSCs and subordinate installation level CSUs. Infrastructure will be replaced based on a five year life cycle.

Exhibit P-40C Budget I	tem Justific	cation Sheet	February 1999
Appropriation / Budget Activity/Serial No.		P-1 Item Nomenclature	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment			PERSONNEL AUTOMATION SYSTEMS (BE4164)
Program Elements for Code B Items	Code	Other Related Program Elements	
result of the DoD decision to discontinue the joint program. Efforts will con enhancements. Army specific enhancements include laptop-based Enlistin headquarters business processes, improving management of recruiters and Processing Stations (MEPS) through establishment of a Guidance Counse will deploy 6700 additional laptops. The laptop-based Enlistment Packet P will interface with or be integrated into the Defense Integrated Military Hum functional area and will be fielded to all levels of the Army recruiting structur military service. The ARISS data structure is based upon DoD standard da Operating Environment (DIICOE). ARISS will provide Army recruiters with recruiters to concentrate on direct recruiting efforts. Completed ARISS cap	tinue to deploy nent Packet Prod d potential recru- dor Standard Da Projection capab nan Resources Stare. ARISS will a state elements and powerful laptop pabilities (Sales	capabilities completed through the joint program ojection and Recruiting Leads capabilities. ARIS uits. ARISS will also provide enhanced automat atabase. To date the Army-only effort has deplobility is being deployed in FY99. Deployment of a System (DIMHRS) when DIMHRS is implemented aid the Army to meet new accession goals in an and the system is compliant with the Joint Technical computers to assist them in marketing the Army Presentation and Packet Projection modules) has	S includes a recruiting Headquarters Support System to modernize recruiting ion capabilities to support Army Guidance Counselors at Military Entrance yed 7600 laptops with an initial multimedia Sales Presentation capability and remaining ARISS capabilities will take place in FY00/01. ARISS capabilities ed. The system will support business process improvements in the recruiting era of dwindling resources and a shrinking pool of potential applicants for

Exhibit P-5, Weapon		Appropriation/ Bu					m Nomenclature:			Weapon System	Туре:	Date:	
OPA Cost Analysis		OTHER F Communications	PROCUREN			PERSON	NNEL AUTOMATION	ON SYSTEMS				Feb	ruary 1999
OPA	ID	Communications	FY 98	onics Equipment		FY 99	(BE4164)		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
COSt Liements	OD	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		ψοσο	Lucii	ψοσο	ΨΟΟΟ	Laon	ψοσο	ψοσο	Laon	ΨΟΟΟ	ΨΟΟΟ	Lacii	ΨΟΟΟ
Personnel Enterprise System-Automation (PES-A)	Α	4602	VAR	VAR	5754	VAR	VAR	7585	VAR	VAR	8440	VAR	VAI
USMEPCOM Joint Computer Center (JCC)	Α	357	VAR	VAR	693	VAR	VAR	659	VAR	VAR	683	VAR	VAI
USMA Information Management Architecture (IMA) Modernization	Α	2230	VAR	VAR	2413	VAR	VAR	2350	VAR	VAR	2335	VAR	VAF
USMEPCOM Integrated Resource System (MIRS)	Α	437	VAR	VAR	536	VAR	VAR	474	VAR	VAR	6505	VAR	VAF
Defense Civilian Personnel Data System Modernization (DCPDS MOD)	Α	9553	VAR	VAR	402	VAR	VAR	5587	VAR	VAR	5581	VAR	VAF
Army Recruiting Information Support System (ARISS)	Α	18286	VAR	VAR	9903	VAR	VAR	8867	VAR	VAR	6277	VAR	VAF
VAR - Units and quantities vary by configuration and site.													
TOTAL		35465			19701			25522			29821		

	Exhibit P-5a, Budget Procurement History and Planning										
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Fouriement	,	Weapon Sys			P-1 Line Item	YSTEMS (BE4164)				
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date		QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date	
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail		
Personnel Enterprise System-Automation (PES-A)											
HW/SW Upgrades											
FY 98	VAR**	C/FP	GSA/DSSW	Dec-97	Feb-98	VAR	VAR	YES	NO		
FY 99	TBS	C/FP	GSA/DSSW	Jan-99	Mar-99	VAR	VAR		NO		
FY 00	TBS	C/FP	GSA/DSSW	Jan-00	Mar-00	VAR	VAR		NO		
FY 01	TBS	C/FP	GSA/DSSW	Jan-01	Mar-01	VAR	VAR		NO		
USMEPCOM Joint Computer Center (JCC)											
Mainframe Software/DASD/Mainframe Upgrade/											
Printers/Tape Drives											
FY 98	EXIDE CORP, Raleigh, NC	C/FP	GSA		Mar-98	VAR	VAR	YES	NO		
FY 99	IBM, Oakbrook, IL	C/FP	GSA	Jan-99	Feb-99	VAR	VAR	YES	NO		
FY 00	TBS	C/FP	GSA	Feb-00		VAR	VAR	_	NO		
FY 01	TBS	C/FP	GSA	Jan-01	Feb-01	VAR	VAR	YES	NO		
USMA Information Management Architecture											
(IMA) Modernization											
Computer Lab HW/SW Upgrade/Library System/											
Servers											
FY 98	VAR***	C/FP	USMA	VAR*	VAR*	VAR	VAR	_	NO		
FY 99	TBS	C/FP	USMA	VAR*	VAR*	VAR	VAR		NO		
FY 00	TBS	C/FP	USMA	VAR*	VAR*	VAR	VAR	_	NO		
FY 01	TBS	C/FP	USMA	VAR*	VAR*	VAR	VAR	YES	NO		
		1									
		1									
		1									

GSA - General Services Administration

VAR - Unit cost and quantities vary by configuration and site.

VAR*- Multiple contract awards/deliveries throughout the year.

VAR** - ORACLE, CA; IBM, NY; SUN Microsystems, CA; and Hewlett Packard, CA.

VAR*** - DELL Marketing Corp, Round Rock, TX; Applied Computer Tech, Inc., Ft Collins, CO; Audio Video Corp., Albany, NY; Multimax Inc., Largo, MD; Technology Management and Analysis, Mclean, VA; Lucent Technologies, Silver Spring, MD

USMA-US Military Academy, Westpoint, NY

DSSW - Defense Supply Services-Washington, Arlington, VA.

IBM - International Business Machines, Oakbrook, IL.

Exhibit	P-5a, Budget Procuremen	t History a		Date: February 1999						
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		Weapon Syst	tem Type:		P-1 Line Item	YSTEMS (BE4164)			
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type		- 15 - 15 - 15	Delivery	Each	\$000	Now?	Avail	
USMEPCOM Integrated Resource System (MIRS)										
CAT-ASVAB Hardware/Software Upgrade										
FY 98	Lockeed-Martin, Oswego, NY	C/FP	CAC-W	Jan-98	Mar-98	VAR	VAR	YES	NO	
FY 99	Lockeed-Martin, Oswego, NY	C/FP	CAC-W	Jan-99	Mar-99	VAR	VAR	_	NO	
FY 00	TBS	C/FP	CAC-W	Jan-00	Mar-00	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	CAC-W	Jan-01	Mar-01	VAR	VAR	YES	NO	
Defense Civilian Personnel Data System										
Modernization (DCPDS MOD)										
Hardware/Software Upgrade										
FY 98	VAR**	C/FP	CAC-W	VAR*	VAR*	VAR	VAR	_	NO	
FY 99	VAR**	C/FP	CAC-W	VAR*	VAR*	VAR	VAR	_	NO	
FY 00	TBS	C/FP	CAC-W	VAR*	VAR*	VAR	VAR	YES	NO	
FY 01	TBS	C/FP	CAC-W	VAR*	VAR*	VAR	VAR	YES	NO	
Army Recruiting Information Support System (ARISS)										
-Hardware/Software Upgrades										
-Data/Process/Application Data Servers										
-Laptop and Desktop PCs										
-COTS Software										
FY 98	VAR***	C/FP	GSA/CECOM	Jun-98	Aug-98	VAR	VAR	YES	NO	
FY 99	VAR***	C/FP	GSA/CECOM		May-99	VAR	VAR		NO	
FY 00	TBS	C/FP	GSA/CECOM	Nov-99		VAR	VAR	YES	NO	
FY 01	TBS	C/FP	GSA/CECOM	Jan-01	Mar-01	VAR	VAR	YES	NO	
FT 01	IDO	C/FP	GSA/CECUIVI	Jan-01	iviar-01	VAR	VAR	YES	NO	

VAR - Unit cost and quantities vary by configuration and site.

GSA - General Services Administration

CECOM - Communications and Electronics Command, Ft Monmouth, NJ

DSSW - Defense Supply Services-Washington, Arlington, VA

CAC-W - Communications and Electronics (CECOM) Acquisition Center-Washington

VAR* - Multiple contracts awarded/delivered throughout the year.

VAR** - PRC - Planning Research Corp - Reston, VA; EDS - Electronic Data Systems - Herndon, VA; Lockheed-Martin - Oswego, NY

VAR*** TELOS, Ashburn, VA; DELL, Austin, TX; GMR, Manassas, VA; VANSTAR, Fairfax, Va

		Entitle D	IO Decilerat	 	antian Obant			Date:						
		Exhibit P-4	io, Buaget	item Justific	cation Sheet					February 1999				
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ure:	_						
OTHER F	PROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	nt		LOGISTICS AUTOMATION SYSTEMS (BE4166)								
Program Elements for Code B I	tems:			Code:	Other Related Prog	Program Elements:								
						_		_	_	•				
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog		
Proc Qty														
Gross Cost	64.9	9.5	5.8	3.0	8.2	7.5	5.4	3.6	2.0	2.1	0.0	112.1		
Less PY Adv Proc														
Plus CY Adv Proc														
Net Proc (P-1)	64.9	9.5	5.8	3.0	8.2	7.5	5.4	3.6	2.0	2.1	0.0	112.1		
Initial Spares														
Total Proc Cost	64.9	9.5	5.8	3.0	8.2	7.5	5.4	3.6	2.0	2.1	0.0	112.1		
Flyaway U/C														
Wpn Sys Proc U/C														

DESCRIPTION: This budget line funds automation initiatives that support transportation, cargo movement, and resupply under the Army's Strategic Mobility Program (ASMP), begun in part as a result of lessons learned from Operation Desert Shield/Storm and the Congressionally mandated Mobility Requirements Study (MRS). The Army is changing its warfighting strategy from a forward deployed force to a CONUS-based force capable of rapid deployment worldwide. At the center of this strategy of rapid force movement are a number of transportation automated systems that facilitate/expedite force movement and resupply. The line also funds automation initiatives that support hazardous substance and food management programs.

JUSTIFICATION:

WORLDWIDE PORT SYSTEM (WPS): WPS is a Military Traffic Management Command (MTMC) automated information system (AIS) initiative essential to effective force projection and in-transit visibility of unit and sustainment cargos. At the center of the new Army strategy for rapid power projection to meet unspecified threats, WPS is one of several systems that provide movement control support to the Army's Strategic Mobility Program, initiated as a result of lessons learned from Operation Desert Shield/Storm and the Congressionally mandated MRS. When fully fielded, WPS will support MTMC ocean terminals, US Navy port activities worldwide, FORSCOM Reserve Component Transportation Terminal Units, and Active Component Automated Cargo Documentation Detachments with worldwide warfighting support missions. Compact and transportable, WPS substantially increases the ability of the Defense Transportation System to provide in-transit visibility information to the warfighting CINCs and USTRANSCOM, while reducing the personnel required to operate the system and the transportation required to deploy the system to remote places. WPS will replace four aging AISs that support ocean terminal management and cargo documentation missions during peace and war. The replaced AISs include the obsolete Terminal Management System in CONUS, and the Army Standard Port System - Enhanced, whose significant deficiencies were identified during Operation Desert Shield/Storm. FY 00/01 funds buy hardware and software to continue fielding WPS to selected sites.

_				
Exhibit P-40C Budget I	tem Justific	cation Sheet		Date February 1999
Appropriation / Budget Activity/Serial No. OTHER PROCUREMENT / 2 / Communications and Electronics Equipment		F	2-1 Item Nomenclature	LOGISTICS AUTOMATION SYSTEMS (BE4166)
Program Elements for Code B Items	Code	Other Related Program	n Elements	
brigade sized deployment or multiple division sized airlift. AALPS is an appliand fielding it to the services. FY00/01 funds will be used to purchase hard be used in air deployments and in determining airlift requirements during a Schofield Barracks, Ft Eustis, Ft Bliss, Ft Riley, Ft Sill, Ft Carson, Ft Richal INTEGRATED COMPUTERIZED DEPLOYMENT SYSTEM (ICODES): IC Military Traffic Management Command (MTMC) initiative, applying the prindramatically reduce the time (from 12 hours to under 30 minutes) and impriand vessel loading. ICODES will support rapid deployment missions, plandimensional representation of the ship compartments, resolving the height improved responsiveness to changes and contingencies; ability to direct transcript report capability; more precise cargo stow plans; and increase AUTOMATIC IDENTIFICATION TECHOLOGY (AIT): AIT is a suite of tech (AISs) with little or no human intervention, thereby enhancing the ability to Military Traffic Management Command and Army logistics business process.	ersonnel, estab proved migratic dware and softwontingency plan rdson, Ft Polk, CODES is being ciples of Artific original accura ning cargo dep limitations of the ansfer stow plan ased productivity hnologies that e- identify, track, of as and enhance	on system, and thoware for Army user non system, and thoware for Army user nning operations. Ft Irwin, Ft Huachung developed as a sial Intelligence to ticy of the ship stow loyments from multion the current system. an files; streamline ity. FY 00/01 fundenables the automadocument, and core its warfighting ca	planning information, and quickle ugh it is a joint system, the Arries, supplying them with a deplo Fielding sites are Ft Bragg, Ft uca, Ft Lee, Ft McCoy, Ft McPlosingle standard common user she function of planning loads a planning process, enabling the planning process, enabling the Benefits from this system included and standardized terminal cast procure the hardware and so attic capture of source data rapintrol deploying and redeploying pability. The AIT devices purc	dy produces fully executable (certified) load plans for either a single mission, my is designated as the proponent, responsible for developing, implementing byable automated platform for developing load plans and manifests, which will Campbell, Ft Stewart, Ft Benning, Ft Drum, Ft Hood, Ft Lewis, USAREUR, herson, and Ft Dix. Stow planning system to meet DoD worldwide requirements. ICODES is a and stowage of cargo and equipment aboard ocean vessels. ICODES will be user to concentrate on complex problems associated with port management and debarkation, as well as multiple ships. ICODES will also detail a three ude: replacement of the current autonomous and redundant systems; argo training support; more effective allocation of marine cargo resources; oftware necessary to continue fielding to authorized users.
ARMY FOOD MANAGEMENT INFORMATION SYSTEM (AFMIS): This p	orogram moder	nizes the current A	rmy Food Management Inform	nation System (AFMIS). It includes improved business processes in food

service operations, a point of sale capability, an automated headcount capability to support smart card technology, and an added decision support module to allow high level managers at installation, MACOM and HQDA to make better management decisions. Hardware will also be improved from the current AT&T 3B2 mini-computers and dumb terminal configuration to a Y2K compliant Windows NT client-server platform. FY 00/01 funds buy hardware and software for Army Installations worldwide. The new platform will comply with the Army Technical Architecture (ATA) and Common Operating Environment (COE) standards. There are approximately 48 installations and a total of approximately 325 Dining Facilities throughout CONUS and OCONUS. The modernized system will be utilizing Commercial Off The Shelf (COTS) software to manage inventory, purchasing & receiving, and recipe & menu planning. It will also provide labor and asset tracking and automate account status. The new hardware and software will be certified as Y2K compliant.

Exhibit P-40C Budget I	tem Justific	cation Sheet		February 1999
Appropriation / Budget Activity/Serial No.			P-1 Item Nomenclature	
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment				LOGISTICS AUTOMATION SYSTEMS (BE4166)
Program Elements for Code B Items	Code	Other Related Progra	am Elements	
and hazardous waste at the installation level. The implementation of the in the warfighting units is enhanced in several areas. First, the centralized m control, issue and disposal and allows more time for maintenance of equipmaterials to the TOE unit allowing more funds for training and other mission the shelf life of required hazardous materials needed for training and/or defor deployment. And finally, the centralized management practices allow for the unit are reduced as well as the environmental liability of the commanded the improved management system and software to 50 installations to date	nproved managinanagement of himent and weapons. Third, centrapployment thus represent the use of hazarer. All of these band plans to fiel hazardous maters.	ement system re hazardous materions and training. alized managem educing the time ardous materials benefits enhance Id to approximate erial purchased,	isults in an increase in operation ials decreases the soldier's requivalent also allows for the rapid preparation of these deparation of these deparation by authorized personnel with the capability of units to train and all 160 installations by the end of	In of improved business practices for the management of hazardous material al readiness and cost savings in hazardous waste disposal. The readiness of iirements for many environmental related duties such as ordering, inventory gement practices reduce the inventory and thus the cost of hazardous paration of deployment loads and packages. The new system also monitors alloyment loads and the possibility of having to use expired items during training the are trained and equipped for these operations. Health and safety risks to did deploy to meet the mission needs of the Total Army. The Army has fielded if FY 03. To date the improved system has resulted in improved operational cost. FY 00/01 funds buy automation hardware (computers, printers, bar code

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREN				m Nomenclature: TICS AUTOMATIO (BE4166)			Weapon System	Туре:	Date: Feb	uary 1999
OPA	ID		FY 98			FY 99	(BE+100)		FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Cost Elements		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Worldwide Port System (WPS)	А	1002	23	44	949	23	41	1278	30	·	1972	47	42
Automated Air Loading Planning System (AALPS)	Α				1400	250	6	510	85	6	373	62	6
Integrated Computerized Deployment System (ICODES)	Α	124	1	124	200	4	50	200	4	50	200	4	50
Intransit Visibility/Automatic Identification Technology (ITV/AIT)	Α	755	VAR	VAR	421	VAR	VAR	1212	VAR	VAR	1313	VAR	VAR
LIA Logistics Automation System	Α	3953	VAR	VAR									
Army Food Management Information Systems (AFMIS) Modernization	А							3367	VAR	VAR	2414	VAR	VAR
Hazardous Substance Management System (HSMS)	А							1647	28	59	1253	21	60
TOTAL		5834			2970			8214			7525		

Ev	hibit P-5a, Budget Procurement	History 3	and Planning					Date:	February	1000
Appropriation / Budget Activity/Serial No:	mbit F-3a, Buuget Frocurement	Weapon Syst			P-1 Line Item	Nomenclatur	e:		rebluary	1999
OTHER PROCUREMENT / 2 / Communications and Electr	ronics					LOGISTICS	S AUTOMATION SY	STEMS (E	BE4166)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Worldwide Port System (WPS)										
FY 98	CFS	C/FP	МТМС	Mar-98	Jul-98	23	44	YES	NO	
FY 99	твѕ	C/FP	мтмс	Mar-99	Jul-99	23		YES	NO	
FY 00	твѕ	C/FP	MTMC	Mar-00	Jul-00	30		YES	NO	
FY 01	TBS	C/FP	MTMC	Mar-01	Jul-01	47	42	YES	NO	
Automated Air Loading Planning System (AALPS)										
FY 99	SYTEL, Inc, Bethesda, MD	C/FP	MTMC	Jan-99	Mar-99	250	6	YES	NO	
FY 00	TBS	C/FP	MTMC	Jan-00	Mar-00	85	6	YES	NO	
FY 01	TBS	C/FP	MTMC	Jan-01	Mar-01	62	6	YES	NO	
Integrated Computerized Deployment System (ICODES)										
FY 98	CFS	C/FP	MTMC	Mar-98	May-98	1	124	YES	NO	
FY 99	TBS	C/FP	MTMC	Mar-99	May-99	4	50	YES	NO	
FY 00	TBS	C/FP	MTMC	Mar-00	May-00	4	50	YES	NO	
FY 01	TBS	C/FP	MTMC	Mar-01	May-01	4	50	YES	NO	
Intransit Visibility/Automatic Identification Technology (ITV/AIT)										
FY 98	SAVI TECH, Mountain View, CA	C/FP	MTMC	Feb-98	May-98	VAR	VAR	YES	NO	
FY 99	TBS	C/FP	MTMC	Feb-99	May-99	VAR	VAR	YES	NO	
FY 00	TBS	C/FP	MTMC	Nov-99		VAR	VAR	YES	NO	
FY 01	TBS	C/FP	MTMC	Nov-00		VAR	VAR	YES	NO	

VAR - Unit cost and quantities vary by configuration.

MTMC - Military Traffic Management Command

CFS - Computer Federal Systems, Richmond, VA

Exhil	oit P-5a, Budget Procurement	History a		Date:	1999					
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronic Equipment	s	Weapon Syst	tem Type:		P-1 Line Item	Nomenclature LOGISTICS	e: S AUTOMATION SY	STEMS (E	BE4166)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Army Food Management Information Systems (AFMIS) Modernization-Hardware/Software		2/55						\ 		
FY 00 FY 01	TBS TBS	C/FP C/FP	SDC-L SDC-L	Mar-00 Mar-01	May-00 May-01	VAR VAR		YES YES	NO NO	
Hazardous Substance Management System (HSMS)										
FY 00 FY 01	TBS TBS	C/FP C/FP	CAC-W CAC-W	Jan-00 Jan-01	Mar-00 Mar-01	28 21		YES YES	NO NO	
LIA Logistics Automation Systems										
FY 98	Quality Research, Huntsville, AL TMA, McLean, VA	C/FP C/FP	CORP OF ENGRS PEO STAMIS	Mar-98 May-98	May-98 Jun-98	VAR VAR			NO NO	

REMARKS: SDC-L - Software Development Center-Ft Lee, VA

VAR - Unit cost and quantities vary by configuration.

PEO STAMIS - Program Executive Office - Standard Army Management Information Systems

CAC-W - Communications and Electronics Command (CECOM) Acquisition Center-Washington DC

TMA-Technology Management Analysis Corp

								Date:				
		Exhibit P-4	10, Budget	ltem Justific	cation Sheet			Date.		February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomencla	ure:	-				
OTHER F	PROCUREMENT / 2 / Cor	mmunications and El	ectronics Equipmen	t				SUSTAINING	BASE INFO SVC (S	BIS) (BE4200)		
Program Elements for Code B I	tems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	121.8	20.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	149.1
Less PY Adv Proc												<u> </u>
Plus CY Adv Proc												
Net Proc (P-1)	121.8	20.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	149.1
Initial Spares												
Total Proc Cost	121.8	20.4	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	149.1
Flyaway U/C]
Wpn Sys Proc U/C												

DESCRIPTION: The Sustaining Base Information Services (SBIS) program consists of up to 13 custom developed applications to be fielded to various Army installations. SBIS applications are designed to operate in an Open Systems Environment (OSE) compliant automated infrastructure maximizing the number of support suppliers while minimizing the total life cycle cost. Funding provided for complete infrastructure solutions to support the applications developed under SBIS, and procured SBIS servers which are integrated with existing automation assets at each fielded site. SBIS provides required automation support to improve and standardize critical sustaining base business processes. Fielded software has become an integral part of readiness, mobilization and installation management. Developed applications enhance key elements of those support missions and enable consistent, timely data collection and dissemination, allowing better management of key areas of the Army Safety Program, security clearance status monitoring, the schoolhouse system, and range facility management. The FY 98 OPA concludes the SBIS acquisition effort.

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREN and Electro			SUSTA	em Nomenclature: INING BASE INF (BE4200)			Weapon System	Type:		ruary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Infrastructure to include: IBM R/S 6000 ProcServer (SBIS & ITP/ISM) IBM R/S 6000 Data Servers IBM R/S 6000 Application Data Servers Communications infrastructure	A	6923	VAR	VAR									
VAR - Unit costs vary by configuration. Quantities vary to meet specific needs at a variety of functional work centers.													
TOTAL		6923											

								Date:		
Exhi	ibit P-5a, Budget Procureme								February ¹	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electron		Weapon Syst	em Type:		P-1 Line Item	Nomenclatur	e:			
OTHER PROCUREMENT / 2 / Communications and Electron Equipment	iics					SUSTAININ	IG BASE INFO SVO	C (SBIS) (E	BE4200)	
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issu Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Infrastructure to include:										
IBM R/S 6000 ProcServer (SBIS & ITP/ISM) IBM R/S 6000 Data servers IBM R/S 6000 Application Data Servers										
Communications Infrastructure										
FY 98	Lockheed-Martin Federal	C/FP	CAC-W	Feb-98	Apr-98	VAR	VAR*	YES	NO	

Lockheed-Martin Federal Systems - Oswego, NY

CAC-W-CECOM Acquisition Center - Washington VAR - Quantities vary to meet specific needs at a variety of functional work centers.

VAR* - Unit costs vary by configuration.

		Exhibit P-4	I0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	erial No:					P-1 Item Nomencla	ure:	-				
OTHER P	ROCUREMENT / 2 / Con	nmunications and El	ectronics Equipmen	t				JOINT COMPUT	R AIDED ACQ & LC	G SPT (WA1000)		
Program Elements for Code B It	ems:			Code:	Other Related Prog	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	0.0	21.9	34.5	27.0	32.3	39.8	40.5	41.3	42.1	43.3	0.0	322.7
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	0.0	21.9	34.5	27.0	32.3	39.8	40.5	41.3	42.1	43.3	0.0	322.7
Initial Spares												
Total Proc Cost	0.0	21.9	34.5	27.0	32.3	39.8	40.5	41.3	42.1	43.3	0.0	322.7
Flyaway U/C												•
Wpn Sys Proc U/C												

DESCRIPTION: The Joint Computer-Aided Acquisition and Logistics Support (JCALS) system provides an infrastructure capable of integrating digitized technical data that supports the weapons systems acquisition and logistics life cycle. The system is data driven and provides an automated information systems architecture, independent of application. JCALS will initially meet the Services' goal of automating technical manual processes and functions. The JCALS architecture provides a distributed, open systems environment that makes extensive use of both industry and Government standards. The architecture is designed for flexibility and growth, and is capable of accommodating additional system requirements, technological improvements and new functionality. The initial application to be fielded is Joint Technical Manuals.

At the JCALS sites, hardware and software configurations are dependent on each site's organization and functions, processing needs and role in the overall system. The system provides local and wide area communications processing, distributes, manages, updates and replicates data throughout the system and delivers the applications and functions to the users' workstations. The system architecture includes a central site for user support, system monitoring, life cycle software support, maintenance and troubleshooting.

JUSTIFICATION: FY 00 funds support deployment of the JCALS capability to high priority Technical Manual users at approximately 25 Joint Service sites. FY01 funds support deployment to approximately 42 Joint Service sites. The DoD approved site list is extensive, including service depots, installations and schools.

Exhibit P-5, Weapon		Appropriation/ Bu	dget Activity				m Nomenclature: MPUTR AIDED A			Weapon System	Type:	Date: Feb	ruary 1999
OPA Cost Analysis		Communications				301111 00	(WA1000)	10001				1 65	idaly 1000
OPA	ID		FY 98		-	FY 99	(FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
Got Elomonio		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		·		·	·		·	·		·	·		·
Joint Computer-Aided Acquisition and Log Support (JCALS) System													
Hardware Investment	Α	21032	35*	VAR	17910	26*	VAR	20579	25*	VAR	27081	42*	VAF
Software Investment	Α	8482	35*	VAR	6224	26*	VAR	8504	25*	VAR	8375	42*	VAF
Site Activation	Α	4964	35*	VAR	2829	26*	VAR	3264	25*	VAR	4294	42*	VAF
* Quantities reflect approximate number of sites. VAR - Unit costs of each site vary based on number of users to receive JCALS and volume of transactions conducted at each site.													
TOTAL		34478			26963			32347			39750		

								Date:		
Exhibit	P-5a, Budget Procuremer	nt History a	and Planning						February ⁻	1999
Appropriation / Budget Activity/Serial No:		Weapon Sys	tem Type:		P-1 Line Item	Nomenclatur	e:			
OTHER PROCUREMENT / 2 / Communications and Electronics Equipment						JOINT COMP	JTR AIDED ACQ &	LOG SPT	(WA1000)
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years		and Type			Delivery	Each	\$000	Now?	Avail	
Joint Computer-Aided Acquisition and Log Support										
(JCALS) Systems										
Hardware Investment										
FY 98	CSC	C/FP	CAC - W	Feb-98	May-98	35	VAR	YES	NO	
FY 99	csc	C/FP	CAC - W	Jan-99		26		YES	NO	
FY 00	csc	Option	CAC - W	Feb-00		25		YES	NO	
FY 01	csc	Option	CAC - W		May-01	42	VAR	YES	NO	
Software Investment										
FY 98	CSC	C/FP	CAC - W	Feb-98	May-98	35	VAR	YES	NO	
FY 99	CSC	C/FP	CAC - W	Jan-99		26	VAR	YES	NO	
FY 00	CSC	Option	CAC - W	Feb-00		25	VAR	YES	NO	
FY 01	CSC	Option	CAC - W	Feb-01	May-01	42	VAR	YES	NO	
Site Activation										
FY 98	CSC	C/FP	CAC - W		May-98	35		YES	NO	
FY 99	CSC	C/FP	CAC - W	Jan-99		26		YES	NO	
FY 00	CSC	Option	CAC - W		May-00	25		YES	NO	
FY 01	CSC	Option	CAC - W	Feb-01	May-01	42	VAR	YES	NO	
				1						

Quantities reflect approximate number of sites FY99-01.

VAR - Unit costs vary by configuration CSC - Computer Systems Corp, Marlton, NJ

CAC-W - CECOM Acquisition Center - Washington

Option - Competitive contract with fixed priced options.

								Date:				
		Exhibit P-4	0, Budget	Item Justific	cation Sheet					February 1999		
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclat	ture:	=				
OTHER P	ROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	t			F	RESERVE COMPON	ENT AUTOMATION	SYS (RCAS) (BE41	67)	
Program Elements for Code B Is	tems:			Code:	Other Related Prog	ram Elements:						
							1	1	1			
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	81.8	72.2	112.8	107.9	83.0	92.2	89.7	18.9	0.0	0.0	0.0	658.4
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	81.8	72.2	112.8	107.9	83.0	92.2	89.7	18.9	0.0	0.0	0.0	658.4
Initial Spares												
Total Proc Cost	81.8	72.2	112.8	107.9	83.0	92.2	89.7	18.9	0.0	0.0	0.0	658.4
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Reserve Component Automation System (RCAS) is an automated information system that will provide the Army the capability to more effectively administer, manage and mobilize Army National Guard and Army Reserve forces. The RCAS will link over 10,500 Guard and Reserve units at over 4,000 locations. The RCAS will support daily operational, training and administrative tasks at all Guard and Reserve echelons, and will provide timely and accurate information to plan and support mobilization. The RCAS is an Acquisition Category 1AM program managed by the Chief, National Guard Bureau. The RCAS Project was restructured in FY95 to constrain cost growth, establish a realistic requirements baseline, and leverage new information management technology. The redesigned system consists of commercial-off-the shelf (COTS) hardware and office automation software, government off-the-shelf (GOTS) software, and new software applications integrated into an open system, PC-based architecture.

JUSTIFICATION: As part of the restructured project, the RCAS Mission Needs Statement (MNS) was re-validated, 5 March 1996. Program goals and functional requirements are described in the updated RCAS Operational Concept Description (OCD), April 1996. The RCAS program approach was approved by the RCAS General Officer Steering Committee (GOSC), the OSD MAISRC, and Congress, September 1996. On 23 September 1996 a joint DOD/DA Overarching Integrated Process Team (OIPT) chaired by OSD (C31 Acquisition) unanimously approved the fielding of the first increment of the RCAS hardware and software. Increment One provides the Reserve Component with personal computers, network servers, office automation, and a nation-wide infrastructure that supports electronic mail and file transfer. On 24 November 1997 an Integrated Process Team (IIPT) approved full fielding of Increment Two of the RCAS. This increment adds database servers to the infrastructure and logistics functionality associated with GOTS software to include Unit Level Logistics System (ULLS)-Ground, ULLS-S4 (Supply), and Standard Property Book System-Redesign (SPBS-R). Increment Three, currently under development, will introduce force authorization, training, human resources and Phase II of software encryption requirements. Future requirements, defined in a "rolling wave" evolutionary process, will satisfy user-validated requirements in the order of priority established by the Army National Guard and Army Reserve Forces.

Exhibit P-5, Weapon		Appropriation/ Bu OTHER F	dget Activity				m Nomenclature: COMPONENT AL	TOMATION SYS		Weapon System	Type:	Date: Feb	ruary 1999
OPA Cost Analysis		Communications					(RCAS) (BE41						luary 1000
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
PRODUCTION ADP Equipment ADP Software	А	41134 21982	1 1	41134 21982	38993 21403	1 1	38993 21403	18469 26140	1		19363 26044	1 1	1936: 2604
SUBTOTAL		63116			60396			44609			45407		
FIELDING		17027	1	17027	16796	1	16796	15172	1	15172	16080	1	16080
SUSTAINMENT		4159	1	4159	3776	1	3776	1119	1	1119	2928	1	2928
PROGRAM MANAGEMENT/OPERATIONS		11095	1	11095	11532	1	11532	9388	1	9388	11032	1	11032
SYSTEM ENGINEERING		12928	1	12928	10457	1	10457	9356	1	9356	11728	1	11728
AWARD FEE		4459	1	4459	4937	1	4937	3396	1	3396	4979	1	4979
TOTAL		112784			107894			83040			92154		

								Date:				
	t P-5a, Budget Procuremer				_				February	1999		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics		Weapon Syst	em Type:			Nomenclatur		Avail Revsn Avail Now? Avail 33116 Yes No 30396 Yes No 44609 Yes No				
Equipment		Contract	<u> </u>							RFP Iss		
VBS Cost Elements:	Contractor and Location	Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost			Date		
iiscal Years		and Type			Delivery	Each	\$000	Now?	Avail			
CAS System												
- - - - - - -	Boeing Info Sys, Vienna, VA	Option	CECOM (former ISSAA)	Oct-97	Oct-97	1	63116	Yes	No			
Y99	Boeing Info Sys, Vienna, VA	Option	CECOM (former ISSAA)	Oct-98		1	60396					
Y00	Boeing Info Sys, Vienna, VA	Option	CECOM (former ISSAA)	Oct-99		1	44609	Yes	No			
Y01	Boeing Info Sys, Vienna, VA	Option	CECOM (former ISSAA)	Oct-00	Oct-00	1	45407	Yes	No			

The RCAS is a "turn key" system, and as such, is considered one system. The quantity therefore is one.

Unit costs only reflect hardware and software acquisition costs. Other essential contract costs associated with the development and fielding of the system are not included in the unit costs.

Contract award dates are for annual renewals of the base contract awarded in 1991.

		Exhibit P-4	l0, Budget	Item Justific	cation Sheet			Date:		February 1999		
Appropriation / Budget Activity/S	erial No:					P-1 Item Nomenclat	ure:	_				
OTHER P	ROCUREMENT / 2 / Con	nmunications and Ele	ectronics Equipmen	t					AFRTS (BZ8480)			
Program Elements for Code B It	ems:			Code:	Other Related Progr	ram Elements:						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog
Proc Qty												
Gross Cost	71.6	2.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	77.9
Less PY Adv Proc												
Plus CY Adv Proc												
Net Proc (P-1)	71.6	2.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	77.9
Initial Spares												
Total Proc Cost	71.6	2.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	77.9
Flyaway U/C												
Wpn Sys Proc U/C												

DESCRIPTION: The Armed Forces Radio and Television Service (AFRTS) provides American language broadcast services to DoD personnel and family members stationed overseas. AFRTS is the only mass communications support to overseas warfighting Commanders-in-Chief (CINCs) for dissemination of emergency, safety and command information during peacetime, wartime and Operations Other Than War (OOTW). AFRTS facilities operate 24-hours per day to broadcast radio and television programming to nearly 500,000 soldiers, sailors, airmen, marines, DoD civilians and family members in accordance with DoD Directive 5122.10. Overseas wartime operational CINCs consider AFRTS a "combat multiplier" and essential "quality of life" issue for maintaining and enhancing the morale, readiness, and well-being of overseas troops, DoD personnel and their families. AFRTS service has become increasingly important for dissemination of timely information as the Army shifts resources in support of contingency, peacekeeping and wartime operations. Congress mandates that AFRTS provide the same type of radio and television service to personnel deployed overseas that is available to American citizens in the United States.

JUSTIFICATION: FY 00/01 funds purchase Commercial Off The Shelf (COTS) audio broadcast systems and electronic news production systems to sustain AFRTS broadcast operations. Failure to fund these systems will reduce AFRTS capability to sustain mission support for full spectrum contingency operations such as Croatia, Hungary, Macedonia and Bosnia, and deny warfighting CINCs the critical AFRTS resources to execute wartime and contingency/emergency information needs in a timely manner. In addition to health, safety and quality of life issues, "Observations and Lessons Learned, Operation Desert Storm," validated Army AFRTS as a force multiplier and Battlefield Support Agency. Army AFRTS, through its primary mission of command information, serves as an information conduit for the battlefield commander. The mass communications broadcast mission of AFRTS is not duplicated by the strategic communication mission of the Army or other services and is the only means of direct communication from the President of the United States to US deployed forces. Overseas force reductions, force realignment, post-Conventional Forces Europe (CFE), troop strength reductions in Korea and overseas base closures have been considered and do not impact the equipment required to sustain the basic broadcast capability to remaining forces.

Exhibit P-5, Weapon OPA Cost Analysis			PROCUREM			P-1 Line Iter	m Nomenclature: AFRTS (BZ84			Weapon System	Туре:	Date: Feb	uary 1999
OPA	ID		FY 98			FY 99			FY 00			FY 01	
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
OOST Elements	_	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
		ΨΟΟΟ	Laon	ΨΟΟΟ	Ψ000	Luon	ΨΟΟΟ	φοσο	Laon	ψοσο	φοσο	Luon	φοσο
American Forces Network Europe Replacement Equipment	A	206	2	103	266	1	266	220	1	220	350	3	117
American Forces Network Korea Replacement Equipment	А	236	2	118	220	1	220	270	1	270	139	1	139
TOTAL		442			486			490			489		

	Exhibit P-5a, Budget Procureme	nt History a	and Planning					Date:	February	1999
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and E	Electronics	Weapon Syst	tem Type:		P-1 Line Item	n Nomenclatur	re: AFRTS (BZ848	60)		
WBS Cost Elements:	Contractor and Location	Contract Method	Location of PCO	Award Date	Date of First	QTY	Unit Cost	Specs Avail	Date Revsn	RFP Issue Date
Fiscal Years	1	and Type			Delivery	Each	\$000	Now?	Avail	
American Forces Network Europe Replacement Equipment										
FY 98	AVID Technology	C/FP	T-ASA	May-98		2			NO	
FY 99	TBS	C/FP	T-ASA	Apr-99	Aug-99	1	266		NO	
FY 00	TBS	C/FP	T-ASA	Mar-00			220	YES	NO	
FY 01	TBS	C/FP	T-ASA	Mar-01	Aug-01	3	117	YES	NO	
American Forces Network Korea Replacement Equipment										
FY 98	AVID Technology	C/FP	T-ASA	May-98	Jul-98	2	118	YES	NO	
FY 99	TBS	C/FP	T-ASA	Apr-99	Aug-99	1	220	YES	NO	
FY 00	TBS	C/FP	T-ASA	Mar-00	Aug-00	1	270		NO	
FY 01	TBS	C/FP	T-ASA	Mar-01	Aug-01	1	139	YES	NO	

T-ASA - Television-Audio Support Activity, McClellan, AFB, CA

AVID Technology, Tewksburg, MA

								Date:							
		Exhibit P-4	10, Budget	Item Justific	cation Sheet	February 1999									
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclature: ITEMS LESS THAN \$5.0M (A/V) (BK5289)									
OTHER F	PROCUREMENT / 2 / Com	nmunications and Ele	ectronics Equipmen	nt											
Program Elements for Code B Items:				Code:	Other Related Prog	Other Related Program Elements:									
			1				1	1	1						
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog			
Proc Qty															
Gross Cost	122.6	2.1	2.5	4.6	2.7	3.2	5.3	5.5	5.8	6.1	0.0	160.5			
Less PY Adv Proc															
Plus CY Adv Proc															
Net Proc (P-1)	122.6	2.1	2.5	4.6	2.7	3.2	5.3	5.5	5.8	6.1	0.0	160.5			
Initial Spares															
Total Proc Cost	122.6	2.1	2.5	4.6	2.7	3.2	5.3	5.5	5.8	6.1	0.0	160.5			
Flyaway U/C															
Wpn Sys Proc U/C															

DESCRIPTION: This budget line supports Visual Information (VI) processes for all MACOMs and Headquarters, Department of the Army (HQDA) Field Operating Agencies (FOAs). Department of Defense (DoD)/Army authorized VI activities provide audio-visually-based products and services to support Army-wide training and readiness, force development, mobilization, health, safety, and documentation of diagnostics for medical, historical, and professional information. VI support includes imagery for installation power projection platforms, video productions (especially for Military Occupational Specialty (MOS) training and readiness, safety and intelligence), electronic imaging, and photography (including DA official photos). VI equipment provides commanders with video, photography, electronic imaging, audio, and other computer generated media which can be integrated to convey real time, two-way information throughout the chain of command.

All equipment has been approved for purchase through the requirements process and included in the Visual Information Systems Program (VISP). The VISP Program is the only means for commanders to procure, replace or augment their VI investment systems and equipment. The equipment in the VISP has been reviewed and prioritized, both by MACOMs, and HQDA, Director, Information Systems for Command, Control, Communications and Computers (DISC4). These funds are in support of the Army Plan SEC VII, Para J3b(4), "Obtain a family of information systems to meet the needs of all disciplines ... developed in the context of approved information models and architecture." Funds will purchase equipment to support the transition to electronic imaging (away from hazardous chemical processes) and replace equipment past its life cycle for commanders at each post, camp and station, plus HQDA, Office of the Joint Chiefs of Staff, Office of the Secretary of Defense, and other government agencies in the National Capital Region, as well as the U.S. Military Academy, National Defense University CAPSTONE course, Training and Doctrine Command (TRADOC) schools, and the National Guard and Army Reserves training.

JUSTIFICATION: FY 00/01 funds provide VI equipment for Army elements to directly support the warfighter. The equipment to be purchased is listed in the associated FY VISP acquisition sequence. Funds will acquire replacement VI investment equipment/systems to produce training materials and other VI products to support the warfighter. Existing equipment is obsolete, requiring excessive maintenance dollars and long inefficient "throughput" times.

Exhibit P-5, Weapon OPA Cost Analysis		Appropriation/ Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment FY 98					m Nomenclature: ESS THAN \$5.0M	(A/V) (BK5289)		Weapon System	Туре:	Date: February 1999 FY 01	
OPA			FY 98			FY 99 FY			FY 00				
Cost Elements	CD	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost	TotalCost	Qty	UnitCost
		\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000	\$000	Each	\$000
Procurement actions consisting of one or more items of Visual Information Equipment. Individual items are listed in the Visual Information Systems Program (VISP) for year indicated. The Army maintains a priority listing.	A	2527	VAR	VAR	4584	VAR	VAR	2689	VAR	VAR	3240	VAR	VAF
TOTAL		2527			4584			2689			3240		

Exhibit P-5a, Budget Procurement History and Planning										Date: February 1999		
Appropriation / Budget Activity/Serial No: OTHER PROCUREMENT / 2 / Communications and Electronics Equipment	Weapon Syst	em Type:	re: LESS THAN \$5.0M (A/V) (BK5289)									
WBS Cost Elements: Fiscal Years	Contractor and Location	Contract Method and Type	Location of PCO	Award Date	Date of First Delivery	QTY Each	Unit Cost	Specs Avail Now?	Date Revsn Avail	RFP Issu Date		
iscal reals		апа туре			Delivery	Eacii	\$000	NOW?	Avaii			
Procurement actions consisting of one or more items of Visual Information Equipment. Individual items are listed in the Visual Information Systems Program (VISP) for year indicated. The Army maintains a priority listing.												
FY 98 FY 99 FY 00 FY 01	VAR** TBS TBS TBS	C/FP C/FP C/FP	T-ASA T-ASA T-ASA T-ASA	VAR* VAR* VAR* VAR*	VAR* VAR* VAR* VAR*	VAR VAR VAR VAR	VAR VAR	YES YES	NO NO NO NO			

VAR - Quantity and unit costs vary by configuration.

VAR* - Items are procured from multiple contracts throughout the year.

VAR** - VI items procured from contracts with a variety of manufactures for various sites.

T-ASA - Television-Audio Support Activity, McClellan, AFB, CA

	I	Exhibit P-4	0, Budget l	tem Justifi	cation Shee	Date: February 1999									
Appropriation / Budget Activity/S	Serial No:					P-1 Item Nomenclature:									
OTHER PR	OCUREMENT / 2 / Con	nmunications and E	lectronics Equipme	ent		PRODUCTION BASE SUPPORT (C-E) (BF5400)									
Program Elements for Code B	Code:	Other Related Prog	ated Program Elements:												
	Prior Years	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	FY 2004	FY 2005	To Complete	Total Prog			
Proc Qty															
Gross Cost	175.1	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.0	179.0			
Less PY Adv Proc												ı			
Plus CY Adv Proc												·			
Net Proc (P-1)	175.1	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.0	179.0			
Initial Spares												1			
Total Proc Cost	175.1	0.7	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.0	179.0			
Flyaway U/C															
Wpn Sys Proc U/C												· ·			

DESCRIPTION: This program provides funding to establish, modernize, expand or replace Army-owned industrial facilities used in production and production testing of communication and electronic material and above routine maintenance of government-owned equipment used in the manufacture of common modules. By consolidating industrial operations it provided a working environment with improved health and safety factors.

JUSTIFICATION: FY00 and FY01 funding is required for replacement of the FPS-16 radar pedestal. Upgrading is required because it collects Time Space Position Information (TSPI) data below the precision required by customers. Electronic Proving Ground (EPG) is currently unable to support large communications systems tests because there are not enough communications emitters in the EPG inventory. Also, in FY00 funding will be used to maintain the Industrial Base for the equipment used at a limited number of producers capable of producing the common modules, which are critical items needed in Thermal Night Sights.